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THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898. ELMER D. SMITH, Adrian, Mich., secretary.

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Illinois to Omaha.

In view of the excellent rate of fare now granted by the railroads, it is both hoped and anticipated that there will be a large attendance at the S A. F. convention. The Chicago, Milwaukee and St. Paul railroad has been selected as the route from Chicago to the convention city. The fare will be $14.75 for the round trip, and many of the eastern delegations will consolidate at Chicago for the trip west, leaving over this line August 15 at 6:15 p. m. Special cars have been secured, and berths will be reserved upon request, addressed to the undersigned, care of the AMERICAN FLORIST.

J. V. MERRION,
S. A. F. Vice-Pres. for Illinois.

Hybrid Wichuraiana Roses.

[Paper read before the Philadelphia Florists' Club on August 2 by W. A. Manda, South Orange, N. J.]

The introduction of the Rosa Wichuraiana has given us not only new and distinct habit, but a parent that has proven most potent in producing by hybridization the most startling result that may be expected by the most sanguine of hybridizers.

This species is a native of Asia and was first introduced into culture in recent years. Possessing extraordinary hardiness and freedom of growth, with luxuriant glossy foliage which is proof against insects, this species soon became a favorite and is extensively used in landscape work for covering ground, for which it is particularly adapted. It is surprising that this rose was not selected before to impart its distinct habit and good quality to other garden roses.

The result of the different crosses has been most gratifying, and has given us an entirely new race of roses known as the hybrid Wichuraiana. The first crosses, made without records, have given us roses that surpass the well known Crimson Rambler in every point, and last year four varieties were sent out which have become public favorites.

Manda's Triumph has, presumably, a white Noisette for its parent, and is considered the best of the four varieties. The growth is very strong; stems twelve to twenty feet long, foliage thick, leathery and glossy, lasting well into the winter. Flowers pure white, perfectly double, finely imbricated, two inches in diameter, produced in clusters of from ten to seventy-five flowers, and literally covering the plant; most useful for trailing on the ground, or as a climber for verandas, trees and similar purposes. This rose forces even better than the Crimson Rambler, and thus will be a grand companion to that variety as an Easter plant.

Universal Favorite, showing a trace of a hybrid perpetual, grows six to twelve feet long, not so prostrate as the former variety, but has even better foliage, with a bright surface. The stems branch freely while the flowers are produced in extraordinary profusion, in clusters of ten to fifteen each, measuring two to three inches in diameter, double and of a light pink color, very fragrant and, like Manda's Triumph, will make an excellent Easter plant and a fit companion. South Orange Perfection sends out perhaps the longest stems, twenty to twenty-five feet long, foliage thick and shining, while the flowers are produced in clusters, one to one and a half inches in diameter, perfectly double, forming a perfect minature rose, flesh color; it is best adapted as a pillar rose, or for covering ground.

Pink Roamer is evidently an offspring from sweetbriar. This variety makes growths from twenty to twenty-five feet in length. The foliage is distinct from the former three varieties and is of a light green color and thinner texture. The fragrant flowers are single, two inches in diameter, produced in large panicles all along the ripened stems. This is a very striking and beautiful variety used for almost any purpose.

By crossing Rosa Wichuraiana with greenhouse teas the result is astonishing, as the plants are not only hardy but retain their foliage during the winter. Thus a new race of evergreen roses has been added to our collection, and promises to be the beginning of a new and useful class.

Jersey Beauty, Perle des Jardins crossed with R. Wichuraiana, is a very vigorous grower, producing shoots fifteen to twenty-five feet in length clothed with large, bright leaves of strong texture and evergreen. The flowers are produced singly or several from the old shoots, literally covering the plant. The individual flowers are two and a half inches to three and a half inches in diameter, yellow in bud and soft yellow color when open, with a mass of bright yellow stamens, which give the flower a striking appearance. It continues in flower for over a month and is deliciously fragrant. This will prove a most valuable plant for pillars, covering ground or trees, and other landscape effects.

Evergreen Gem, Madame Hoste crossed with Wichuraiana, is a most remarkable plant, growing close to the ground, sending out branching growths twelve to twenty feet long clothed with finely cut foliage which is evergreen. The flowers are produced singly or several together, perfectly double, very fragrant and two and a half to three inches in diameter, creamy white when open. The buds are very pretty, of deep yellow hue. This plant has a grand future for any purpose, but especially for landscape architecture, while the buds and flowers equal many greenhouse roses.

Gardenia, Perle des Jardins crossed with R. Wichuraiana, is a grand garden plant. The stems are very strong, fifteen to twenty feet in length, with large foliage of evergreen habit. The flowers are produced mostly singly on long stems, and when in bud are hardly distinguishable from Perle des Jardins. They open three to three and a half inches in diameter and of soft yellow color, incurving towards evening, forming a flower very similar in shape and color to the cardenia, hence its name. This rose will be greatly

sought for cut flower purposes, as a pillar rose and as an Easter plant.

Besides these well tested varieties, I have a number of seedlings that will be heard from when they have been sufficiently tried and their merit established. These show that a distinct and marked improvement can be wrought by selecting totally distinct types of plants, instead of, in the usual way, using the same and exhausted blood, and trying to produce something new out of it. There are other species of roses that could be used to advantage and would give an unforseen result.

In selecting the flower for crossing it should be taken while in bud and the stamens cut out, so as to prevent any possibility of their being fertilized by their own pollen. This should be done in the evening and the crossing done during the midday, when the pollen is in good condition to insure success. It generally takes from four to six months for a seed pod to ripen. A seed pod will hold from ten to twenty-five seeds, which should be sown as soon as ripe, in the ordinary way as other seeds are sown. As soon as the seeds germinate, pot them off in small pots and give them the same treatment as would be given to any young roses. From the seedling stage it will take two or three years for their first flowering and they do not show as well then as they do the second year on the plants that have been grown from cuttings from the original plant. Then they show their proper habit, size and color of flower.

Hybridizing should be done only after careful selection of parent plants, and proper consideration given so as to best attain the improvement desired.

The Caladium.

The common caladiums of our greenhouses are mostly hybrids of C. bicolor, a Brazilian species introduced as long ago as 1775. They are very attractive plants and not so difficult of cultivation as is generally supposed. The splendid coloring of the foliage constitutes their chief charm; but even apart from this, they are exceedingly ornamental in general outline and habit. The combinations of color in the leaves are, however, endless and absolutely beyond description.

It was the custom formerly to give names to such varieties as possessed special merit, and this is still practiced to some extent; but the number of these has become so great in recent years that varietal names are no longer considered serviceable. There are many fine collections of these plants in various establishments throughout the country, and among the more noteworthy, I believe, are those in the conservatories of some of the Chicago parks. But their cultivation is by no means confined to public gardens. At least one private grower of Massachusetts has been very successful with C. argyrites, an extremely pretty dwarf species, and some florists have found the commoner sorts of much utility in decorative work.

A general assortment is grown here and in the embellishment of the conservatory, halls and rooms, and even for table work, we consider them simply indispensable. Well developed plants are most in demand here in June and in order to have them at their best so early in the season we find it necessary to start the tubers about the first week of February. The tubers, accordingly, are at that time turned out of the pots, divided and placed in shallow boxes containing a mixture of sphagnum and sand. The boxes are then placed on the hot water pipes, the sphagnum being kept constantly moist.

When the tubers are properly started, with roots about an inch in length, they are carefully taken from the boxes and potted, using pots in proportion to the size of the tubers and a compost of turfy loam, leaf mold, cow manure and sand, two parts loam to one part each of the other constituents, with a slight sprinkling of charcoal and a four-inch pot of bone meal to a bushel of the soil. The pots are then plunged in moss and given a brisk bottom heat, always preserving the moss in a moist state.

Under these conditions the pots will be half filled with roots in a short time, when the plants should be placed on a bench close to the glass in a night temperature of 65°, which may be increased by 8° or 10° during the day. The atmosphere of the house should be kept moist, and the daily use of the syringe on the plants will tend to promote a rapid and vigorous growth. When the pots are well filled with roots the plants may be moved to others of a larger size. Where large specimens are not needed stock of a more useful size may be grown in 6-inch or 7-inch pots. For table decoration we prefer plants grown in pans.

The final pots or pans being filled with roots, we apply a mulch of chopped sphagnum and bone meal, a four-inch pot of the bone to each bushel of moss. Liquid manure is also given about twice a week. The plants require a light shading during spring and summer, and abundance of water at the roots in warm weather. When thoroughly established they may be removed to the conservatory or show house. The colors are seen to the best advantage when the plants are grouped with ferns and palms. Some growers mass the different kinds all together, but we consider this arrangement too formal.

In autumn, when the leaves begin to fade, gradually withhold water until the leaves have died down. The plants in the pots may then be stowed away under the benches in a house where the temperature does not fall below 55°. The space underneath the benches of a rose house will suit them very well, but a house in which tropical plants are grown would be better. The tubers will be in good condition at potting time if they are given a little water occasionally throughout the fall and winter months. Plants required for late summer and autumn use may be started in April without the aid of bottom heat.

ROBERT SHORE.

Ithaca, N. Y.

The Springfield Sweet Pea Show.

Our annual sweet pea show was again held under the auspices of the Hampden County Horticultural Society and City Hall, our most commodious place of meeting, was chosen for the event.

We had the largest display of sweet peas ever brought together. The tables contained about 750 vases of this popular flower besides other seasonable products. It was largely an exhibition of the more recent introductions as all the novelties of 1897 and 1898 were there in fine bunches, with a number of trial sorts besides. The hot spell of two weeks ago had made us anxious, for our vines were forced rapidly into bloom, a condition that is usually followed by temporary exhaustion and requires both time and favorable weather to put them in prime condition again. Fortunately the week preceding the show was perfect, giving



CALADIUM GROWN BY R. SHORE, ITHACA, N. Y.

us splendid flowers. My own vines rallied and were also brought through an attack of red spider, coming into fine bloom again just in time for the show. It is several years since I have entered any of the competing classes, my own preference being to table one good display that shall please the visitors. There are enough others to compete for the prizes. I notice that tables containing entries to specified classes have a disappointing effect on the average visitor, where only a few stems are required of each sort. The effect of lusty bunches of each color is far more satisfactory.

There were two fine entries for the Eckford Challenge Cup. This called for the seven latest Eckford novelties and never before have such large bunches been shown here, grown the first year from sealed packets. One of the bunches of Prince of Wales must have had a hundred stems, and they all ranged from thirty upwards. Sometimes we can show barely enough to distinguish them. W. J. Eldred was awarded the cup. Of the seven of the new Eckford set are Prince of Wales, a bright rose showing advance merit over Her Majesty; Lady Mary Currie and Chancellor, both splendid developments of the orange salmon order, the latter producing a percentage of blossoms identical with the Currie, perhaps half of them taking the decided orange which we expected from Mr. Eckford's description. Neither one of them comes up to the new trial sort of Burpee's, called Gorgeous, on color. The latter is worthy of the best certificate that can be given. Colonist, which I said in my last article was nearly like Prince of Wales, does decidedly differ and is soft lilac overlaid with bright rose. Duchess of Sutherland is a pearl white very softly suffused with light pink, but it seems to be identical with Burpee's Sensation. Duke of Sutherland, dark claret maroon with indigo wings, makes hardly as good a showing as the old Monarch and, like Shahzada, it is disappointing. Black Knight would be taken for high grade Stanley.

W. J. Eldred and C. M. Hartzell were the only ones who competed for the cup. Each will now have held it a year, and "the rubber" comes next summer, unless a third party enters the race, as it must be won twice to be permanently owned. Our schedule of prizes included thirty-four classes and, with the exception of one or two minor classes, entries were made in all. For the best collection not to include novelties of later than 1897, twenty-five stems each, F. A. Blake took the first prize with a fine table of well grown blossoms including thirty-three varieties. Mr. Blake also won first for the best thirty vases, twelve sprays each. Mrs. H. M. Olin was second. For fifty sprays of any named variety W. J. Eldred took first on a bunch of Lovely; H. H. Fisk, second, on Coquette. For the best white, fifty stems, first was taken by H. H. Fisk, on Blanche Burpee; second best white, Emily Henderson, was awarded to D. W. Brainerd. For best cream, Lottie Hutchins, first was awarded to W. J. Eldred. Best yellow, Golden Gleam, to H. H. Fisk; second best, also Golden Gleam, to W. J. Eldred. Best light pink, Prima Donna, to D. W. Brainerd; second best pink, same variety, to W. J. Eldred. Best rose, Royal Rose, to H. H. Fisk; second best, Her Majesty, to D. W. Brainerd. Best red, Mars, to D. W. Brainerd; second, also Mars, to W. J. Eldred. Best mauve, Dorothy Tennant, to Mrs. H. M. Olin; second, Burpee's New Countess, to H. W. Smith. Best varie-



A HYBRID CALADIUM.

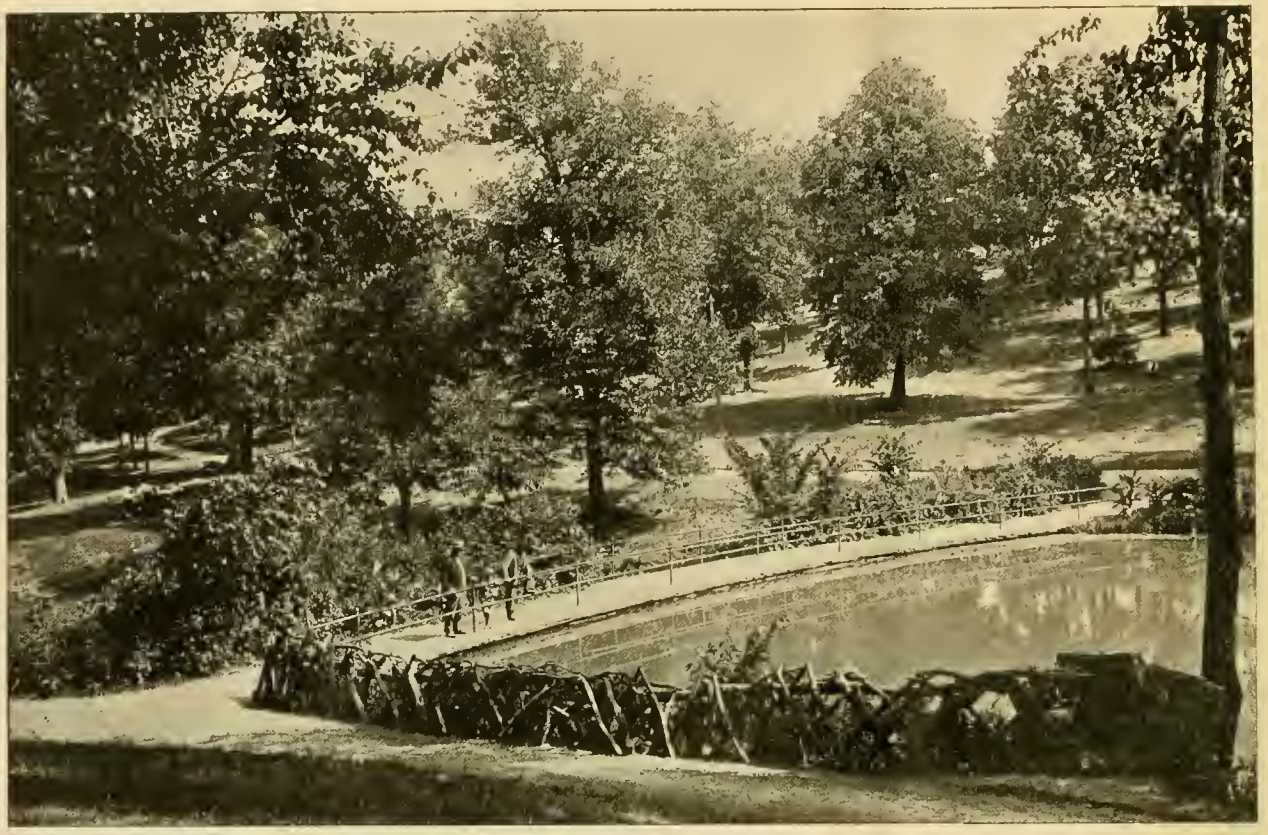
gated, Aurora, H. H. Fisk; second, also Aurora, to D. W. Brainerd. Best twelve stems each of the society's official dozen, only second prize given, to A. H. Smith. Best display of the thirty-six best sorts recommended by the society, awarded to D. W. Brainerd. For display of new varieties, not listed before 1897, awarded to W. J. Eldred. Best variety not catalogued before 1898, Stella Morse. Best twelve stems with largest blossoms, Royal Rose, to H. H. Fisk. Twelve longest stems, mixed, to D. W. Brainerd. For best display of mixed varieties, H. H. Fisk. Best display for effect, with foliage, H. H. Fisk.

Of novelties for 1898, W. J. Eldred had the most complete collection, but the first prize was awarded to F. A. Blake, for quality of bunches. The Gale prize for the best twenty-five stems of twelve varieties was awarded, first to A. H. Smith, second to F. A. Blake. Best fifty stems of Mrs. S. T. Walker, to W. J. Eldred. Best pots of Pink Cupid, C. M. Hartzell. Best twenty-five stems of Sensation, W. J. Eldred, first; F. A. Blake, second. Best twenty-five stems Modesty, F. A. Blake, first; W. J. Eldred, second. Best twenty-five stems Oriental, F. A. Blake, first; Mrs. H. M. Olin, second. Best twenty-five stems, Lottie Hutchins, F. A. Blake, first; D. W. Brainerd, second. Best twenty-five stems Stella Morse, F. A. Blake, first; W. J. Eldred, second. Best and largest general display, first prize was taken by R. A. Houston with seventy-two vases; S. H. Howes also had seventy-two vases, and received second prize.

The judges were R. H. Smith and Rev. W. T. Hutchins. The latter made a display of sixty vases, mostly novelties, not entered for competition.

For popular effect, tables with a hundred vases at our shows two and three years ago were more attractive than the displays we now make. We have dropped about half the list of varieties, and are trying to keep up with the novelties. We used to get fine bunches of color from the old sorts and the effect was striking, but now we run so much to the lighter colors that the visitor hardly gets the sensational effect that was felt two years ago.

I am feeling greatly encouraged by the status of this flower this year. I have never had finer blossoms than now. The difficulties of growing have yielded to more intelligent treatment. The hot wave two weeks ago was disheartening, but I gave my vines a good dose of phosphate, and several thorough sprayings, and they came into fresh growth and beautiful new bloom, and are holding so now. The red spider will probably now be an annual visitor, and he will make short work of vines if they are neglected. For two years I had my ground so rich that by spraying for the spider I made a too rank growth of vines, but now I have my



VIEW IN HANSCOM PARK, OMAHA, NEB.

land down where it will bear lots of water without making rank growth.

I can now get safely by the first blight, that takes the vines when a few inches high. Firming the ground cures that. I have no trouble getting my vines into their first beautiful bloom. But I am puzzled by the vines dying as soon as they have yielded their first crop of blossoms. This does not happen to any extent with me on new ground, but on old ground, even with all painstaking, about one-half the vines have died this year after coming into bloom and I hear of people in other sections losing their vines after less than a fortnight of bloom. Our growers need to meet and discuss this matter. Whether the seed comes from England, California or Oregon this freak of dying just as soon as they get into their first bloom is common to all.

Mountain Park, a Holyoke resort, makes an annual sweet pea show one of it's attractions. C. M. Hartzell usually has charge of it, but for a few weeks he has been on the sick list, which accounts for his not being able to do better in the competition for the Eckford Cup. R. A. Houston had the leading display at the Mountain Park show.

We must now readjust the list of the best colors. The following I should give the leading places in their respective colors: White, Blanche Burpee; light pink, Prima Donna; lavender, New Countess; yellow, Golden Gleam; blood red, Salopian; buff cream, Stella Morse; bright rose, Prince of Wales; richest purple, Duke of Clarence; dark maroon, either Stanley or Black Knight; orange salmon, Oriental; light blue, Emily Eckford; dark blue, Sunset Co.'s A; buff pink, Venus; delicate suffusion of pink, almost white, Modesty; purple magenta, Captivation; rosy mauve, Dorothy Tennant. These are sixteen magnificent colors that come as near to self as we can get. Into this same rank I would put as the very best contrasted or blended colors: Pink and white, Blanche Ferry; cream and white, Coquette; reddish pink and cream, Emily Lynch; shades of light rose, Royal Rose; blue and white, Maid of Honor. There are two or three beautiful candidates for favor in the trial sorts sent out. There is a buff cream shading toward the edge with rose, also a deeper colored Venus, also the Mrs. S. T. Walker with rose tinge. The very cream of the variegated sorts now stand in this order with me: Cream with rosy flakings, Lottie Hutchins; orange pink stripes, Aurora; rose striped, Mrs. Chamberlain; white with soft pink flakings, Ramona; dark striped, Senator; blue striped, Wawona. The ox-blood stripes in grandiflora form do not hold yet, but the percentage that comes that way is fine. Both Gray and Pink Friar are excellent. Coronet is a decided acquisition in spite of its short stems. In the trial sorts are a white that gives a large percentage of doubles, also an intense red that does the same thing. There is something unique about striped Celestial. It seems just a little ahead of any lavender stripe.

I dare not name the list that I would discard. It cuts right into both English and American novelties, and in one lump cuts off fifty of the older sorts. I will not give my ground to them any more. I had hoped to go to California this summer to look over other new sorts which I am told are gems of beauty.

It is, indeed, a time of great interest for this flower. My mind has rallied from fear, and I am not only hopeful but confident we are to carry the beautiful sweet pea steadily forward to complete success.

Massachusetts. W. T. HUTCHINS.

Horticulture on Omaha's Midway.

Two months of exposition life have passed with their memories and trials, failures and successes. Sunshine and rain seem to know that they have a part to perform and greatly aid the gardeners in their efforts to get all things in shape for the florists who are coming soon. This is particularly noticeable when you see the beautiful and effective display upon entering the lower gates which admit you directly south of the handsome Horticultural Hall. Entering here and circling toward the right your first attention is given to the heavily planted oval which is the central floral feature of the lower end. Here coleus, cannas, roses and nicotianas vie with rich toned sumachs and feathery tamarax for supremacy. The whole bed is dotted here and there with beautiful and always decorative purple-leaved ricinus. In one part of the oval there is a marvelously rich canna, the J. C. Vaughan, with coppery yellow flowers of good size.

Proceeding north along the graveled walks we pass two long beds, the exhibits of Douglas county. These are beautiful with red and yellow Coleus Verschaffeltii and Golden Bedder with cannas in the center, surrounded with heliotrope. Most of the beds need careful trimming and until this is done no definite conclusions can be given as to real needs or merits.

Vaughan's Seed Store has a fine bed of cannas, varieties little known in this section. Other exhibits of the same firm are large rectangles filled with gladioli in full bloom and very handsome beds of velvety pansies.

Directly back of the Kansas state buildings an effective bit of planting is shown. In the center are mammoth sunflowers, surrounded with corn and other

common plants, the outer planting being that old time favorite the rose moss, or portulaca, in a two-foot band encircling the entire bed. Here, also, is found a charming bit of landscaping in the wooded dell near the Minnesota log house, the feature of the bluff tract. Large oaks and stately poplars are silhouetted against the deep blue sky and invite entrance to the bridle path through the jungled display of shrubs and tall growing annuals. If one could only catch a glimpse of spray from some wild cataract the picture would be complete.

As we continue onward up the hill from this minature ravine the shrubbery and plants are more thrifty, probably the result of earlier planting. All along may be seen the waving strips of tasseled maize, as attractive as an ornamental plant as it is useful as a food. Landscapist Ulrich seems to know the value of things near at hand and has used native shrubs and climbers with telling effect.

To our left we pass the little sod house, the typical dwelling of the prairie pioneer of thirty years ago and here is also the commodius Nebraska building bidding one and all a cordial welcome in true Nebraska style. It is hard to draw the line of hospitality between these two popular resorts. For in the official headquarters gracious hostesses and handsome women bid you thrice welcome and dear Mrs. Bowser, on the other hand, dispenses her delicious coffee and steaming hot gingerbread with a motherly grace which she alone possesses.

Next in line is the Illinois headquarters. Here we enter the annex and find ourselves again in the Court of Honor of '93. Here are large canvases illustrating the Columbian Exposition, with which the Omaha show is contrasted many times a day.

Near the Arch of Music some fine examples of carpet bedding are found. The massed planting directly behind the arch also adds greatly to the setting of this structure when seen from the viaduct beyond the plaza.

We at last come to the end of this side of the tract and enter the Japanese Tea Garden to order a cup of that refreshing decoction, brewed in true Japanese style. Passing through the queer gardens, over the miniature bridge spanning the tiny brook, stopping awhile to admire the Japanese goldfish in the funny little basin with its funnier fountain, we go out through the bamboo gates to the mall underneath the giant cottonwoods, cross the plaza where Phinney's Iowa State Band is giving its daily recitals, and, somewhat fatigued by our long tramp, we get aboard an electric carriage to be taken along the central drive down to Horticultural Hall and around to the right between the other state buildings. Now we pass the Nebraska Seed Co.'s sweet pea plantation and circle around Dreer's lily basin where the Victoria regia and nymphæas are blooming magnificently. To our left are rose shrubs from Siebrecht & Sons, to our right Davey's seedling cannas, while directly in front blazes of the the same scarlet flash above the name of Vaughan and, almost before we are aware, our flying trip is at an end.

A bit of color has been added to upper midway since the arrival of the picturesque Sioux warriors in full fighting regalia. These wild natives of the plains are worthy the consideration of all eastern tourists, for it will not be long before they, too, will be gone, as the once great flora of the west is rapidly going before the ploughshare of the prairie farmer.

HORTICULTURAL HALL NOTES.

Siebrecht & Sons' palm show attracts no little attention these hot days. This exhibit occupies the west end of the building and also the space assigned to Colorado directly opposite. Luxuriant palms from the tropics lift their arching sprays of green above banks of filmy fern and selaginellas heavily jeweled by pearly drops of water. There is freshness about these palms and the collection of stately bay trees from Holland lends a charm to the cool and airy arrangements.

B. F. Bell brought in some wonderfully pretty bunches of sweet peas for the Burpee display. Burpee's New Countess and Meteor are prime favorites. The Lovely, Senator, Duke of Clarence and Blanche Burpee are of the varieties now shown, while Royal Robe and Emily Eckford are first choice among the fifty varieties on display.

The sweet pea display of the Sunset Seed Co., of California, holds its own and has one advantage, that of being grown right here on the grounds. They show a grand strain of these popular favorites.

The verbena beds are one mass of red, white and blue.

"Dad" Erfling has eased a great many minds by placing labels in each of the lily tubs. Now we know all about the names and habitat of the rare aquatics.

Davey's smiling face reminds one of a lover of more beautiful things than those ugly, spiney and crooked cacti.

At the Hanscom Park greenhouses may be seen one of the finest sights a florist could wish for, an Allamanda Hendersonii in full bloom. A perfect bower of these lemon colored bells completely fills one end of the building and needs to be seen to be fully appreciated. J. H. H.

Carnations.

In addition to learning by experience how to handle carnations and how to grow them successfully indoors during the summer, Mr. Rohrer learned the defects of his houses and has since built an additional range on a much improved plan.

This set of houses is built on the ridge and furrow plan, but with no partitions between them, the gutters being supported by iron arches. The paths are under the gutters. They are built on a slight incline with stationary roofs and the usual ventilation.

This ventilation is, however, their principal point and is obtained by the last house being some seven feet higher than the first one, the ground sloping that much. This gives a circulation of air when the ventilators are all open that is simply impossible to obtain in houses built on the level or in houses that are divided by partitions.

These houses were emptied very early in the spring and were at once planted with good cuttings. This gave them a chance to make well established and strong plants before the hot weather came, which, coupled with the free circulation of air obtainable in these houses, makes the plants to-day better than those plants that have been growing out doors even under the most favorable conditions.

When the hot weather set in the west side of these houses was shaded and about the first of July they were given a mulch of especially prepared sheep manure mixed with some stable manure. They were properly watered and syringed and are today such plants as any grower would be proud of.

To any one who is building or rebuilding carnation houses and who has a plot of ground sloping toward the south or southeast this style of house is worthy of serious consideration. Possibly in the course of time we may get our carnations acclimated to indoor culture, just as roses are, but with this style of house we need not wait for that day to come.

There is one thing, however, absolutely necessary in this style of culture, and that is to have your stock for propagating separate and distinct, as carnations grown in this manner will, if propagated from for a few years in succession, run out and become worthless.

Carnations to be a success under this method of culture must be propagated early and grown along in pots until the houses are ready for them. They must never be pot bound and must never lack for anything in the way of food or water. February struck cuttings are none too early and January ones are better yet.

It might be well to add that Mr. Rohrer uses the solid bed system of growing carnations and to this is attributable much of his success with indoor culture, as the feeding roots are down in the cool ground and are not parboiled as they would be in a bench. They can also be watered more freely without danger of souring the soil and ruining the plants. In fact they do not take so much water in solid beds as they would on benches and, as we Lancaster florists have to pay 25 cents per thousand gallons for all the water we use, the quantity is something to be taken into consideration.

ALBERT M. HERR.

Cineraria Culture.

The cineraria is one of our most useful and ornamental greenhouse plants, and under good cultivation will pay well for the extra care. Seed of a good strain is the first and most important requisite. We generally make two sowings, the first about the 10th of July, the second about the 15th of August; if sown much earlier the hot weather is hard on them and they do not make such fine plants as when sown at the above times. The seed is sown in a fine mixture of soil, leaf mold and sand, covered slightly, then placed in a cool corner of the greenhouse and kept shaded from bright sunlight.

When they show their first character leaf we transplant into flats one inch apart, and on their development to such an extent that they become crowded, we pot them in 2½-inch pots, from those to 4-inch, giving good drainage and using good turfy soil, leaf mold and well rotted cow manure, with a good sprinkling of sand.

When transferred to 4-inch pots we plunge them in a well ventilated pit or frame shaded from the direct sunlight. The plants are grown in a frame as long as the weather will permit. When the pots are well filled with roots the plants should be shifted into the 5-inch or 6-inch sizes, in which they may be flowered, unless specimen or exhibition plants are desired, in which case they should be given plenty of drainage and a richer soil, potted on and finished in 9-inch pots. When the pots are well filled with roots give manure water once a week—not too strong at first, gradually increasing the strength as the plants become used to it.

As it is some risk to leave the plants in a frame after November we move them to a greenhouse which is kept at a night temperature of 40°, with a rise of 10° to 15° during the day. We syringe once daily until they show flower buds, which will be in January and February.

Give good ventilation, avoiding drafts and do not allow the plants to touch, so that there may be a good circulation of air around them. The greatest enemy of the cineraria is the greenfly, but by fumigating with nikoteen once a week we keep them clean. D. F. R.

New York.

BUSINESS AT A STANDSTILL.—HOT WEATHER AND INFERIOR STOCK.—LOSSES THROUGH DELAYS IN APPRAISER'S OFFICE.—CONCESSIONS TO IMPORTERS.—A "SLOPE" ROSE HOUSE.—PREPARATIONS FOR OMAHA.—FLATBUSH BOWLERS.

Business is now at low water mark. Stores are deserted as a rule, not only by buyers but by inmates, a solitary individual on guard being the only sign of life. Windows, refrigerators and counters are bare of any kind of cut flower stock or other evidences of business, excepting a few plants of the indestructible kinds, such as aspidistras, ficuses and Kentias, and the stillness and emptiness surrounding the lone watcher, are more suggestive of the undertaker's shop than the florists' establishment.

Among the wholesalers the same lassitude prevails, except in the first hour or two of the forenoon when the boxes arrive from the few growers who make it a point to keep up regular shipments all through the season, and an odd florist or two with a funeral order or a little beach trade appears on the scene and gets his little supply before the whole invoice is knocked down to John Weir or the Greeks. The hot weather which has been boiling humanity has had a similarly wilting effect on flowers in general and on roses especially, which are mostly of microscopic size and open countenance. Most in evidence just at present are the asters, which are being received in increasing quantity daily, but which are far from first quality as yet.

The custom now prevailing at the appraiser's office whereby imported goods must be taken to the public stores for examination has given considerable trouble lately in the case of plants and other perishable material, the delay resulting in more or less damage, especially in hot weather. Siebrecht & Son had an invoice of cycas leaves injured in this way, also a lot of dracæna canes, and made a prompt protest to the assistant appraiser of the tenth division. The appraiser represented that there are no facilities for properly examining goods on the wharf and claimed to be doing everything possible to expedite examination at the storehouse, but expressed a wish to accommodate importers where practicable in such special cases. He finally agreed to arrange for wharf examination provided Messrs. Siebrecht should give notice of arrival of goods and furnish the necessary labor.

Thorne & Co.'s new "slope" house at Flushing is completed and planted with 4600 Bridesmaids. This house, 60x150, is located on a steep hillside and has a continuous unbroken roof, with three rows of ventilators. It was built by Hitchings & Co., who also did the heating, two of their new No. 57 heaters being required. Mr. Thorne is very sanguine as to the practicability of this style house. It is certainly in good hands for the demonstration, as Mr. Williams, the foreman in charge, is recognized as one of the most careful and successful of rose growers. If the season's results are satisfactory another house of same style and equal size is contemplated.

All those in the vicinity of New York who intend to go to Omaha should not forget that Vice-President Wallace is planning a comfortable and enjoyable excursion party for that occasion and prompt application should be made to him for terms and other information relative to the journey. It is earnestly hoped that the representation from New York may be of creditable size and there is no doubt that the visit to the distant Nebraska metropolis will well repay those who make the effort.

Bowling still holds its place in the affections of the Flatbush contingent, notwithstanding the torrid weather, but there is some doubt about getting a full team from that locality for Omaha. Louis Schmutz's record of 148 in five frames last week is a hint of what the Flatbush boys might do if they could be prevailed upon to enter the ring this year.

J. J. Perkins will open in the commission business in a part of the store occupied by Koffman on West Twenty-ninth street.

W. C. Mansfield, of Lexington avenue, has just returned from a vacation at Liberty and is installing a new refrigerator in anticipation of a big season.

Visitors in town: O. J. Olson, St. Paul, Minn.; Herbert Spavin, Mt. Kisco, N. Y.

Philadelphia.

HOT WEATHER HAS AFFECTED BOTH STOCK AND TRADE.—BUSINESS FAIR FOR THE SEASON.—FLORISTS' CLUB LISTENS TO MR. MANDA.—CONVENTION MATTERS.—DISCUSSION ON HYBRIDIZATION.—REDUCED FARE TO OMAHA.—STOKE POGIS CRICKET PLAYERS.—NOTES.

The heat has been almost unbearable the past week and the considerable rain which has fallen has served to keep up a humidity which is not much short of a Turkish bath. It is excellent growing weather, however, and all outside stock is coming along finely.

Business is fair for the season, there being considerable funeral work with a consequent demand for white flowers of all kinds. Asters are now quite plentiful at from 50 cents to $1 per 100. They are mostly outside stock but seem to have escaped the bugs entirely as yet.

The new crop of Beauty roses is coming in from quite a few growers, but they are not much as yet; from 50 cents to $1.50 per doz. is the price. La France, Kaiserin and Meteors are the other favorites and sell from $2 to $5 per 100 as quality demands. Lily of the valley is fairly good and gladioli are to be had in quantity at from $2 to $4 per 100.

There was a very well attended meeting of the Florists' Club last Tuesday evening. Mr. Manda's paper on Wichuraiana hybrid roses was the attraction, together, possibly, with the nearness of the convention, which generally attracts members "on the fence," who make up their minds at the last moment, being influenced by the number going. This inducement, we are sorry to say, was rather discouraging than otherwise, as several who were supposed to have gotten down on the other side were found to be still poised on the rail and seemed likely to fall back. If there had been a shoot on the convention hill of side dishes probably some five or six more might have been counted on. These side events are decried by some, but do away with them entirely and those who travel from 1000 to 1500 miles to attend the convention from pure love of the business and a wholesouled desire to tell all they have learned the past year for the benefit of their fellow ornamental horticulturists, can be counted on the fingers of not a great many hands.

The "good times" feature of the convention is a most important factor; many prominent florists whose presence is desirable are as often attracted by the social as the business side, and the fact that they are going influences others who go solely for the fun there is in it, the convention being a mere incident, some not attending more than one or two sessions.

The subject for the next meeting will be the convention, and all those attending are expected to give a good account of themselves and the way they helped their western brothers run matters.

The paper by Mr. Manda was most excellent, and his success in hybridizing the Wichuraiana with other distinct species was most graphically told. He did not keep strictly to his notes, but went into smaller details that are always pleasant to the listener. The new roses were taken up one by one and described. At first he did not suppose they were hardy, but as they grew so luxuriantly he had no alternative but to leave them out of doors for lack of room and was delighted to find they were not only entirely hardy but evergreen. Evergreen Gem is a constant grower, making growth even during the winter months outside during favorable spells of mild weather.

A fact brought out during the discussion was the proportion of good varieties likely to be obtained by crossing distinct species. Four fine varieties were selected from only twelve seedlings. One seed pod yielded two promising kinds and another one. Mr. Manda said that it was a mistake to cross hybrids with hybrids and teas with teas and expect good results. Distinct species must be used. He thought the Cherokee rose offered a fine chance for the hybridizer as it was a strong grower and had a good, large single flower. He also thought it would be better than Manetti for grafting purposes. In answer to Mr. Herr he said that crossing greenhouse varieties of carnations with dianthus and other distinct species would bring good results and is quite worthy of an extended trial. One thing about the seedlings was that cuttings taken from them showed better results than the original plants and it was always best to give a variety such a trial before discarding it.

A vote of thanks was tendered the essayist for his excellent paper, which was given to the committee for publication.

Those desiring to go to the convention should purchase tickets from John Westcott and get the benefit of one fare for the round trip and other incidentals only to be had by going with his party. Tickets purchased from regular offices will cost a fare and one-third.

The employes of the Stoke Pogis nurseries and farms played three games of cricket on July 4 with teams representing the nurseries and farms which resulted in the nurserymen winning two games out of three. On last Tuesday afternoon another game was played the farmers winning from the nurserymen by three runs, so it was agreed by the captains to play it off with a one inning game. The nurserymen made forty-five runs, the farmers twenty-five, the former with five wickets to fall when the game was called on account of the rain. The final game will be played on Labor Day.

Pennock Brothers have set their bulk back six inches and have removed their stable from the rear and carried out their greenhouse the full depth of the lot, thus gaining valuable room. K.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.
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Advertisements, 10 Cents a Line, Agate; $1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

The Convention.

The fourteenth annual meeting of the Society of American Florists will be held at Omaha, Neb., August 16 to 19, inclusive. The secretary, Wm. J. Stewart, 67 Bromfield street, Boston, Mass., will receive the annual dues in advance of the meeting and forward the 1898 badge by mail. S. B. Stewart, 119 North Sixteenth street, Omaha, is in charge of the trade exhibition, and will supply prospective exhibitors with all necessary information.

On to Omaha.

The efforts of the AMERICAN FLORIST have at last resulted in a reduction in the rate of railroad fare to the S. A. F. convention. The Western Passenger Association has authorized a rate of one fare for the round trip plus $2, or $14.75 from Chicago, and $13.50 from St. Louis. In territory within 150 miles of Omaha a rate of one fare will obtain. In territory between Chicago, Buffalo and Pittsburg the Central Passenger Association has conceded a rate of one and one-third fare for the round trip, upon the certificate plan.

The Chicago, Milwaukee & St. Paul railroad has been selected as the route from Chicago to Omaha, and the AMERICAN FLORIST is prepared to reserve for its friends berths in special Pullman palace cars leaving Chicago at 6:15 p. m., Monday, August 15, which will reach Omaha at 8:20 a. m. the following day.

Many of the eastern delegations will travel to Chicago over the Pennsylvania railroad upon the train leaving New York August 14 at 2 p. m., leaving Philadelphia at 4:30 p. m.; Washington, 3:30 p. m.; Harrisburg, 7:30 p. m.; Baltimore, 4:35 p. m.; arriving at Chicago at 5 p. m., at the same depot from which the Chicago, Milwaukee & St. Paul convention train will leave one hour and fifteen minutes later.

Eastern representatives are invited to join the Illinois party and should see that their tickets read "Via Chicago, Milwaukee & St. Paul railroad."

Railroad Rates to Omaha.

A rate of one and one-third fare for the round trip, on the certificate plan, has finally been secured from all points in the territory of the Central Passenger Association, which includes everything between Buffalo and Pittsburg on the east and Chicago and St. Louis on the west, and north of the Ohio River. It is possible that special delegations from this territory may be able to make even better rates now that this rate has been conceded, but the one and one-third fare concession is available to individuals on any and all lines under the jurisdiction of the Central Passenger Association.

WM. J. STEWART, Secretary.

THIEVES have been removing the small shade trees in one of Chicago's additions and have been selling them as nursery stock.

WITH the issue of July 30 the AMERICAN FLORIST completed its thirteenth volume, binders for which may be obtained upon application at seventy-five cents each.

THE annual Convention Number of the AMERICAN FLORIST will be issued upon August 13, and will be thoroughly in keeping with the spirit of progress which permeates the west. A word to the wise advertiser is sufficient.

CARL HAGENBURGER, of Mentor, Ohio, has sent us a sample of his Coleus Klondike. It is quite attractive, the leaves being reddish purple at the base, the venation purple with a creamy white area in the center and large portions mottled green and yellow on either side.

WE are in receipt of the following from G. C. Watson, the Philadelphia seedsman: "A notice in the window of R. A. Stewart, Thirteenth and Walnut streets, reads—'Closed during the month of August. Will open September 1, 1898. Residence 743 North Forth-fourth street.' This is one way of relieving the boss of opening and closing the store in vacation time, which your versatile New York correspondent says is such a tax during the dog days."

Greenhouse Building.

Woodside, N. Y.—A. S. Burns, one plant house, 75 feet.

Cambridge, Mass.—Harvard Botanic Garden, range of conservatories.

North Beverly, Mass.—J. F. Potter, one greenhouse.

Glastonbury, Conn.—J. R. Morgan & Son, two commercial houses, each 20x90.

North Easton, Mass.—John McFarland, one commercial house.

Sharon, Pa.—M. I. O'Brien, one carnation house. Frank H. Buhl, range of commercial houses.

Detroit, Mich.—Frank Holznagle, two houses, each 20x200. C. A. Rackman, house 20x150. Chas. Warneke, fine show house.

Wilmington, Del.—W. H. Vance, two houses 20x100, one house 10x100.

San Francisco, Cal.—Domoto Bros., two houses each 22x100.

Omaha Hotels.

Following is a list of Omaha hotels convenient to the convention hall:

HOTEL.	CAPACITY.	AMERICAN PLAN.	EUROPEAN PLAN.
Iler Grand, 16th and Howard,			$1.00-1.50
The Millard, 13th and Douglas,	100	$3.00 up.	$1.50 up.
Arcade Hotel, 13th and Douglas,	100	$2.00	
Hotel Dellone, 14th and Capitol av	450	$2.00 up.	$1.00 up.
The New Mercer, 12th and Howard,	300	$2.00-2.50	$1.00-1.50
Hotel Barker, 13th and Jones,	100	$1.50	$1.00
The Midland, 16th and Chicago,	150	$1.50-2.00	$.50 1.00
Drexel Hotel, 16th and Webster,	100	$——	$.75 up.
Murray Hotel, 14th and Harney,	100	$2.50 up.	
Victoria Hotel, Dodge St. nr. 13th,	50	$1.50 up.	
Dodge European (gentlemen only), 101-111 So. 13th,	40		$1.00
Hotel Vendome, 414 So. 13th,	40	$1.00-1.50	
The Windsor, 10th and Jackson,	50	$2.00	
Hotel Garfield, 1515 Howard,	200		$.25 up.
The Brunswick, 16th and Jackson,	200	$2.00-3.00	$1.00 up.

Boston.

WEATHER HAS A DEPRESSING EFFECT UPON THE QUALITY OF STOCK.—BUSINESS IS VERY LIGHT.—SWEET PEAS ARE POOR.—ASTERS TAKE THE PLACE OF CARNATIONS.—HORTICULTURAL SOCIETY'S SHOW WAS SLIM.

Boston has had its full proportion of the sweltering weather which the entire country has endured during the past week. The excessive moisture and frequent heavy rains have done splendid service for the lawns, which never were greener, and for the trees, which are as fresh as in June, but the effect on most flowers valued by the florists has been anything but pleasing. Sweet peas have suffered especially. The petals of the best of them are thin and spotted and it takes but a few hours to put them in a decaying condition after being picked. Roses are exceedingly poor. It is fortunate for the wholesalers that this comes at a time when the demand is next to nothing, otherwise there would be some very spicy correspondence regarding the quality of the stock shipped to the autocrats of the sea side and the country resorts, who want winter quality goods, but at summer prices. Carnations are scarce, but they are not seriously missed, for their particular mission at this season of the year is to fill up funeral designs, and we have plenty of asters that take their place nicely.

The exhibition at Horticultural Hall last Sunday was noticeably slim for this season of the year. Perennial phloxes, antirrhinums and hardy lilies were the specialties provided for in the schedule, but of the lilies there were none and the others were but sparingly represented. The great exhibition of aquatic plants and flowers will take place on Saturday, August 20.

Chicago.

CONFIDENCE IN A GOOD FALL TRADE.—STOCK IS NOW NOT EQUAL TO THE DEMAND.—EXTRA GOOD SUMMER FLOWERS.—BEAUTIES AND THEIR PRICES.—ON TO OMAHA.—ECHOES OF THE BIG HAIL STORM.—JOTTINGS ABOUT THE CITY.

It has been many and many a day since Chicago wholesalers, commission men and retailers have been in as good spirits as now prevail. Every indication points to a fall trade which will eclipse the best records of previous years and every man in the business is confident that he will be declaring big dividends by spring.

The first part of the month which ended last week showed a smaller volume of business than the corresponding period of a year ago, but the latter part of July was better than the same period of 1897, so that the month averaged pretty well. This week trade has been excellent and the commission men have sold out early every morning; frequently they have not had one bloom left at nine o'clock. The supply has been somewhat under the ordinary in quantity, doubtless because the glut of June and early July, and its accompanying low prices, induced many growers to throw out the old plants somewhat earlier than usual.

The quality of the stock now in the market is a source of pleasure to both grower, wholesaler and retailer. Summer flowers are never the equal of winter stock but the blooms of the present season are, as a rule, considerably better than is usual. Carnations in particular are fine and away ahead of last year's crop.

Of course the carnations now being cut

are nearly all grown in the fields and are not nearly as good as those which will come on in October. However, it is seldom that so good whites and reds have been produced in the open air. The pink, particularly Scott, have a very fair color and of the whites, many growers speak well of the Kohinoor, which is producing unusually fine flowers this season. Every one regrets that this bloom comes variegated under glass. Doubtless one reason that the outside stock is good this year is that we have had few severe wind and rain storms to beat down the plants. Another reason is that the growers in general are doing better field cultivation.

Roses seem to be the flowers in greatest demand this season and the present cut is insufficient in pink and white to meet the call. Beauties sell faster than they grow and bring good prices. Some of the growers are still cutting from old plants and, while the stems are as long as could be wished, the blooms are somewhat faded and have lost their lasting quality. However, the stock of such blooms is quickly absorbed at from $2 to $2.50 per dozen, while new Beauties, scarcely more than buds, with stems from tweive to sixteen inches long, are not numerous enough to meet the demand at $1.50 per dozen. It is a good price for blooms of this quality.

The supply of roscs is increasing every day and in another month will be all that will be required for a very lively trade. This winter's cut of carnations is to be the biggest in the history of this market, but the fact that everything indicates blooms of extra quality seems to assure the consumption of the crop. The sweet pea cut is approaching its end, and the supply at present does not leave a great deal for the street fakirs. Asters are quite plentiful and, in common with other garden flowers, do not sell well.

There promises to be a good sized party for the Florists' Club's expedition to Milwaukee next Thursday, although a very large proportion of those who would like to participate will be prevented from doing so because a week-day was selected for the trip. The Virginia leaves at 9 a. m. and tickets for the voyage are 85 cents.

The reduction in the rate of railroad fare to Omaha has already resulted in the assurance of a good representation from this city. Interest has been created which will result in much good, both to the Chicagoans who attend and to the S. A. F. itself. A large local delegation will be joined by several parties from the east and will leave Chicago via the C., M. & St. P. at 6:15 p. m., August 15.

The H. M. Hooker Company reports that the last week has been exceptionally busy. Not in years has the demand for glass been as great as it has been since the big hail storm of July 28. Thousands of lights were broken in dwellings, factories and stores, but, as usual, the greenhouse men were the heaviest sufferers. Messrs. Weinhoeber and Vaughan, whose loss aggregates about 7,000 square feet, were insured in the Florists' Hail Association, but the Garfield Park Floral Company, which lost 13,000 feet, and Messrs. H. N. Burns, H. Schiller, H. F. Halle and Swain Nelson & Sons were uninsured. The Hinsdale Rose Company lost 2,000 feet and at Riverside at the Reissig establishment the storm made practically a clean sweep. Fortunately the hail did not strike north or south far enough to catch the numerous big plants at the city's edge. Had it done so the loss would have been very great as 16x22 single thick glass is now worth $3.45 a box, or nearly seven cents a square foot. At this rate Reinberg Bros. would have to pay $40,000 for the glass alone should their roof be destroyed.

J. A. Budlong is so well pleased with the success of his first three months' trial at selling his own cut of flowers that he regrets that he did not build an addition to his establishment this summer. If business continues, a range of eight houses will go up early in the spring.

Last Sunday night safe blowers attempted to rob W. W. Barnard & Co., but were detected. A score of police engaged in the hunt for the robbers but were unsuccessful. The loss was some damaged furniture and a few postage stamps.

E. E. Pieser, of Kennicott Bros. Co., has been spending the week at the Spring Lake hotel, Spring Lake, Mich.

Phil. Hauswirth will go to Indianapolis in the second week of September as a delegate to the annual national convention of the Improved Order of Red Men.

O P. Bassett continues to rusticate at Lake Delavan. He comes home each Saturday and rejoins his family on Monday. Mr. Washburn is expected home from Colorado in a few days.

E. E. Kennicott is enjoying himself upon the Pacific coast. A newsy letter from him appears in another column.

Joshua Brooks, an octogenarian and son of Samuel Brooks, the man who built the first greenhouse in Chicago, died July 26.

W. E. Lynch has returned from his outing in the east.

Recent callers were John Ellspermann and J. D. Carmody, Evansville, Ind.; Walter Mott, Philadelphia.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED—Working foreman, married, 25 years experience, good references, moderate salary. Address METEOR, care American Florist.

SITUATION WANTED—By good all-round florist; age 27, single; 12 years' experience in pot plants in general, palms, ferns and propagation. Can take charge of houses, state terms. Address F A-1, care American Florist.

SITUATION WANTED—As general greenhouse assistant. A good grower of carnations, 'mums and general stock; can do any repair work; temperate and reliable; wages reasonable Address W A, care American Florist.

SITUATION WANTED—The first of September by a first-class all-round florist, single, 16 years' experience; successful grower and propagator; capable of taking charge; A-1 references. Address O K, care American Florist.

SITUATION WANTED—As foreman in large cut flower growing establishment by an A-1 grower; 25 years' experience; best references; only reliable parties need apply Address ROSEGROWER, care American Florist.

SITUATION WANTED—By gardener; English, age 40, small family; 25 years' experience in all-round work. Good orchid grower. Ten years with Sir W. Van Horne, Montreal. First-class references. J. H. HOLLIDAY, 133½ Alexander St., Montreal, Can.

SITUATION WANTED—By practical gardener and florist; 40 years of age, married, 25 years experience in all branches of horticulture; private or commercial; dis-engaged first of October; best of references. Address P. NELSON, South Graham Ave., Council Bluffs, Ia.

WANTED—Young German florist, for growing pot plants. ART FLORAL CO., 3907 Cottage Grove Ave., Chicago.

WANTED—Man who understands growing of palms and ferns. No other wanted Apply VAUGHAN'S GREENHOUSES, Western Springs, Ill.

WANTED—A young man as assistant florist to grow general stock; when writing state wages expected with reference. GEO. SOUSTER, Elgin, Ill.

WANTED AT ONCE—First-class man to handle rose and do general greenhouse work; American preferred. Good place for right man; state wages wanted. C. H. FREY, 1131 O St., Lincoln, Neb.

WANTED—Man as fireman and general greenhouse worker. Also a youth with experience to assist in store. State salary required and particulars to ARTHUR H. BOOL, Ithaca, N. Y.

WANTED—At once, a good all-round florist to grow roses, carnations and 'mums; $20 per month to start; will pay more if he proves himself capable; good home; steady place. C. HUMFELD, Clay Center, Kan.

FOR SALE—Four greenhouses, nearly new. Good retail stand. A. CLAUS, Springfield, Ill.

FOR RENT—Good paying retail houses, new, of 5000 feet, in city of over 20,000. Renter to buy stock. A B, care American Florist, Chicago.

FOR SALE—Small heater in running order, embracing boiler 200 feet, 4-in. piping, tank, valves, etc. GEO. B. MOULDER, Smiths Grove, Ky.

FOR SALE—An established well-stocked retail store, lease, good will and fixtures, fullest investigation, principals only. Address ADVERTISER, care of F J. Bernstein, 1175 Third Ave., New York City.

FOR SALE—5000 feet four-inch cast iron pipe in best condition; price, f. o. b. four cents per foot. Plenty of ells, hub sleeves, and single and double T's go with it. D. R WOODWARD & SON, So. Framingham, Mass.

FOR RENT—To reliable party, the old establishment consisting of 11 greenhouses; 16,000 feet of glass; newly rebuilt; also store; finest location in Chicago; cause poor health. GARFIELD PARK FLORAL CO., 1688 W. Madison St., Chicago.

FOR SALE—21 acres land, suited to gardener and florist, in city limits, St. Charles, Ill.; small house, and buildings all new; 35 miles from Chicago; two railroads; on street car line; near cemetery. Price $3000. Address H. SWABY, Eldora, Iowa.

FOR RENT—Three greenhouses, 5,000 feet of glass, also two-story frame and brick basement residence, all situated near a number of large cemeteries, 3 blocks from R. R. station and 2 blocks from electric cars. Possession can be given at once. Address P G, 127 Wells St., Chicago.

CHICAGO LOTS FOR SALE!

One block from corner Lincoln avenue and Wellington street, a bunch of lots at $25 per front foot, sewer and water. Suitable for greenhouse purposes. JAMES ROOD, JR., Tel. Main 3868. Room 5. 154 Lake St., Chicago.

FOR SALE AT A BARGAIN.

Florist establishment of over 10,000 square feet of glass; splendid situation, 8 lots, 35 ft. front; water, gas and electric light on street; greenhouse, office and barn all newly built, with all conveniences; heated by steam. Centrally located in city of 18 000 population in State of Indiana. Competition none to speak of. Leading establishment in the city. Sickness cause of selling. Address INDIANA, care American Florist.

FOR SALE OR RENT

In suburb of Chicago. Six greenhouses (8,000 sq. ft. of glass) heated by hot water, well stocked with carnations, roses, violets and chrysanthemums, etc., and a good assortment of plants for a first-class retail business; city water; also cottage of six rooms, barn and sheds; on account of poor health I will sell the above with stock at a very low figure on easy terms, or rent for a term of years (with option of purchasing) to a responsible party. Address

X Y Z, care American Florist.

FOR SALE!

A florist establishment for sale consisting of 13,000 sq. ft. of glass, in good condition. Heated by steam; in the city limits, located in a city of 18,000 inhabitants on the Mississippi river in Iowa, with several acres of land and dwelling house; must sell soon on account of old age. For further particulars address

IOWA, care American Florist.

FOR SALE.

FIFTY HORSE POWER BOILER with front and fittings complete, F. O. B. $100.00. Is in first-class condition, in use only five years heating school at low pressure.....

Address **JOSEPH KIFT, West Chester, Pa.**

NOTICE

—OF—

STOCKHOLDERS' MEETING.

CHICAGO, July 16, 1898.

Stockholders of the American Florist Company:

You are hereby notified that the annual meeting of the Stockholders of the American Florist Company will be held in Hotel Dellone, Omaha, Neb., Thursday, August, 18, 1898, at 3 o'clock P. M., for the purpose of electing directors and officers for the ensuing term, and for the transaction of such other business as may come before the meeting.

J. C. VAUGHAN, Pres.
M. BARKER, Acting Sec'y.

Sharon, Pa.

The weather has been all that could be desired and carnations in the field are looking fine. If the same favorable weather continues the plants will be extra large by time for putting in the houses.

S. S. Skidelsky, of Philadelphia, who was a visitor last week, and Mr. Fischer, of New Castle, will open a commission house and general supply store in Pittsburg about September 15, and have our best wishes for success.

E. McConnell & Son have agreed to disagree and dissolved partnership, young Mr. McConnell taking a situation with August Krueger in Meadville, Pa. Mr. McConnell, senior, expects to put one or two new carnations on the market next spring, a white and one similar to Maud Dean, but much more prolific. He expects to bench from 12,000 to 15,000 carnations and sells exclusively at wholesale.

M. I. O'Brien is adding a new house to his establishment, which will contain about 15,000 feet. He will bench about 8,000 carnations.

John Murchie has about 11,000 feet of glass, of which 8,000 feet are devoted to carnations and the rest to general stock.

Chas. Heintz is to build one or two new houses to replace those burned a year or so ago.

Wm. J. Corlett, with Lord & Burnham, is erecting a range of houses for Frank H. Buhl consisting of palm, orchid, rose, two plant houses and propagating house. It will be a very complete and handy little establishment, and will be heated with hot water. Mr. Corlett says everything will be finished early in September. James Clelland is the gardener in charge.

Nearly all report having done a good business in the past season, and many are making preparations for building. John Murchie contemplates putting up two rose houses. Albert Williams will remodel and change his location. None can afford the time for Omaha.

ROZELLE.

CHICAGO TO OMAHA.

Take the Chicago, Milwaukee & St. Paul Railway. It is the best road and shortest line between the two cities. It has the most perfect track and the finest equipment. The sleeping cars are palaces, and the dining car service equal to the best hotels.

For the meeting of the Society of American Florists, the Chicago, Milwaukee & St. Paul Railway will sell tickets at one fare plus $2 00 ($14.75) Chicago to Omaha and return on August 14th and 15th. Tickets good to return to and including Aug. 25th.

A special solid Vestibuled Electric Lighted train will leave via Chicago, Milwaukee & St. Paul Railway from Union Depot at 6:15 p. m. on Monday, August 15th, on arrival of trains from Philadelphia, New York, Boston, Buffalo, Pittsburg, Cleveland, Toledo, Detroit and Milwaukee, arriving Omaha 8:20 a. m. Tuesday.

In purchasing through tickets from East of Chicago, see that they read over the Chicago, Milwaukee & St. Paul Railway from Chicago to Omaha.

Reservations can be made in sleeping cars and tickets purchased on application to H. E. Laing, City Passenger Agent, 95 Adams Street, Chicago.

BRILLIANT GREEN AND BRONZE

GALAX LEAVES,

For Decorating and all Florists' Designs.

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

ESTABLISHED 1866 **EMIL STEFFENS** SUCC.TO N. STEFFENS. AND STEFFENS BROS.

MANUFACTURER OF

FLORISTS' WIRE DESIGNS & SUPPLIES

335 EAST 21ST ST. NEW YORK CITY.

Wholesale Flower Markets

CINCINNATI, Aug. 4.

Roses, Beauties, select	15 00
" " medium	8.00@10.00
" Brides, Bridesmaids	2 00@ 3.00
" Meteors	3.00
" Perles	2.00@ 3.00
Carnations	50@ .75
" fancy	1.00
Sweet peas	.15@ .20
Tuberose, Stocks	3.00@ 4.00
Gladioli	3 00
Smilax	10.00
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, Aug. 4.

Roses, Beauties	3 00@15 00
" Meteors	2.00@ 5 00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	2.00@ 3.00
" Kaiserins	2.00@ 6.00
Carnations	.75@ 1.00
Asters	1.00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@75.00
Gladioli	2 00

MILWAUKEE, Aug. 4.

Roses, Beauties	5 00@20.00
" Brides, Bridesmaids	2 00@ 4 00
" Perles	1 00@ 3.00
" Meteors	2.00@ 4 00
" Kaserins	2.00@ 5.00
Carnations	.40@ 1.00
Sweet peas	.10@ .15
Gladioli	3.00@ 5 00
Smilax	10.00@15 00
Adiantum	.75@ 1.00
Common ferns	.20
Asparagus	50.00
Asters	.50@ 1 00

BUFFALO, Aug. 4.

Roses, Beauties	5.00@25 00
" Brides, Bridesmaids	2.00@ 6.00
" Meteors	2.00@ 6.00
" Perles, Niphetos	1.00@ 3 00
" Kaiserins	2.00@ 6.00
Carnations, ordinary	.75@ 1.00
" fancies	1.00@ 2.00
Lily of the valley	4 00@ 5.00
Sweet peas per dozen bunches, .30@ .50	
Smilax	10 00@15.00
Auratum lilies	8.00@10.00
Album rosum lilies	5 00@ 6.00
Asters	.50@ 1.50
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Gladioli	2.00@ 4 00

LOUISVILLE, Aug. 4.

Roses, Beauties, per dozen	.75@1.50
" Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" Kaiserins	2.00@ 4 00
" Perles	1.50@ 2.00
Carnations, fancy	1.25@ 1.50
" common	1.00
Mignonettes	.25
Smilax, per dozen	1.25@ 2.00
Adiantum	.75
Asparagus, per string	.50
Dagger ferns, per M	.00

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

WM. F. KASTING WHOLESALE COMMISSION FLORIST....

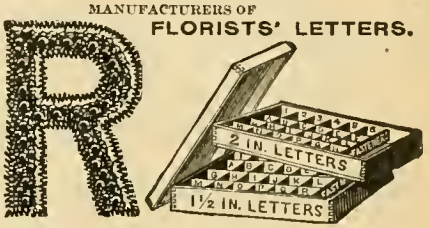
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CHICAGO, Aug. 5.

Roses, Beauties.....per doz,	.75@2.00
" Brides	1.00@ 3.00
" Meteors, Kaiserins	1.00@ 4.00
" Bridesmaids	1.00@ 3.00
" Siebrecht Perles	1.00@ 3.00
" Testouts	1.00@ 3.00
Carnations, common	.25@ 1.00
Asters	1.00@ 2.00
Auratum lilies	6.00@ 8.00
Harrisii	3.00@ 4.00
Lily of the valley	3.00@ 5.00
Sweet peas	.04@ .08
Gladioli	2.00@ 4.00
Adiantum	.50@ 1.00
Common ferns	.20
Smilax	8.00@10.00
Asparagus	40.00@75.00
Pansies	.25

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ROSES, CARNATIONS, VALLEY
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Roses, Beauties	5.00@25.00
" Bridesmaids, Testouts, Brides	.50@ 3.00
" Morgans, Meteors	2.00@ 6 00
Carnations	.50@ .75
Lily of the valley	1.00@ 3.00
Sweet peas, per 100 bunches	.75@1.00
Smilax	8 00@10 00
Asparagus	40.00@50.00
Cattleyas	25.00@40.00
Asters	.25@ .40

BOSTON, Aug. 3.

Roses, Beauties	5.00@25.00
" Morgans, Meteors	2 00@ 4.00
" Brides, Bridesmaids	1.00@ 4.00
Carnations	.50@ .75
Lily of the valley	2.00@ 3.00
Sweet peas	.10@ .15
Smilax	10.00@12.00
Asparagus	50.00
Adiantum	.50@ .75
Asters	.40@ .50

PHILADELPHIA, Aug. 3.

Roses, Beauties	3 00@16.00
" Brides, Bridesmaids	2.00@ 4 00
" Kaiserins, Meteors	2.00@ 5.00
Carnations	.50@ .75
Lily of the valley, gladioli	2.00@ 4.00
Japanese lilies	4.00@ 6.00
Sweet peas	.15@ .25
Cattleyas	35.00@40.00
Smilax	12.00@15.00
Asparagus	25 00@35.00
Adiantum	.50@ .75

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A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

MILWAUKEE, WIS.—Charles Hawks, the nurseryman, is rusticating at Juneau.

DELAWARE, O.—George W. Campbell, the well known nurseryman, died at his home here July 25.

PROF. HERBERT OSBORN, entomologist for Iowa, is making a tour of inspection of the nursery stocks of the state.

BATAVIA, N. Y.—Virgil Bogue, of Albion, has purchased an interest in the Anson Bogue Nursery and fruit farm here.

ST. LOUIS, MO.—John Kennedy, employed by nurseryman G. W. Sallee, was drowned July 24, while swimming.

FREDONIA, N. Y.—Marvin Hubbard, of the T. S. Hubbard Nursery Co., was overcome by the heat July 29, but will recover.

A. P. SHIGLEY, of the Bunker Hill Nursery, Mankato, Minn., publishes an original advertisement in his local paper in which he calls attention to the fact that he has devoted thirty years to growing stock in his present location and that all his plants, trees and shrubs are thoroughly acclimated.

Omaha.

PLANS FOR THE ENTERTAINMENT OF VISITORS TO THE CONVENTION. — AN EXCURSION PERSONALLY CONDUCTED BY J. F. WILCOX.—THE BOWLER'S WEEKLY RECORD.

The entertainment committee has prepared a program to supplement that of the S. A. F. It will be in the line of pleasure seeking and will begin on Tuesday evening when the president's reception will be given with a mandolin and guitar orchestra as an accessory. The reception will be followed by a lecture on Russia, illustrated with stereopticon views, by Prof. F. W. Taylor.

On Wednesday J. F. Wilcox will take the visitors upon an excursion to Council Bluffs. It is Mr. Wilcox's intention to have cars on hand at Fourteenth and Douglas streets Omaha for his guests who are expected to board same for a trolley ride across the Missouri and through a very picturesque portion of Iowa to his extensive establishment on the east side of town. Cars will wait to convey guests to Fairmount Park, Council Bluffs, where Mr. Wilcox will provide for the wants of the inner man. After lunch visitors will be at liberty to go as they please, as there will be much to see.

The bowling contest for the Evans cup will begin at Krug Park at 2 p. m. Wednesday. Thursday evening will be devoted to a visit to Mr. Lininger's magnificent art gallery and Friday will be spent at the Trans-Mississippi Exposition.

Following is the bowling score made August 1:

	1st.	2d.	3d.	4th.	Av.
Hadkinson,..	160	150	155	146	153
Wilcox,.....	171	134	124	157	146
Swoboda,.....	101	154	151	164	142
Donaghue,Sr,	119	131	151	155	140
Henderson,...	138	171	120	116	136
Donaghue,Jr.	153	145	108	135	135
Shaw,.....	131	94	130	133	122
Zimmer,.....	111	98	124	146	120

Present indications point to Mr. Donaghue, Sr., being captain of bowling team. J. F. Wilcox is a close second. J. H. H.

San Francisco.

A MURDEROUS CHINAMAN CAUSES AN EXPLOSION WHICH WRECKS NURSERIES AND CAUSES A DEMAND FOR FUNERAL FLOWERS.— DOMOTO BROTHERS' ESTABLISHMENT.— A SPLENDID AURATUM.— THE MARKET.—PROSPECT OF AN OVER SUPPLY OF CARNATIONS.—SMILAX ONCE MORE PROFITABLE.

Last week a Chinaman in the fuse works at Melrose murdered a fellow countryman and then killed five deputy sheriffs in committing suicide by blowing up the powder house. The explosion broke a great deal of glass of the nurseries within a radius of two miles. The Blanding avenue nursery had about ten boxes broken; Domoto Bros., two miles away, about twenty boxes, and two or three other small nurseries suffered considerable loss.

I visited Domoto Bros. to find out what damage was done and looked over their stock. They make a specialty of Cycas revoluta and are this year forcing about 10,000 pounds. They have planted about 30,000 chrysanthemums and they are all in fine condition. They are grown in boxes and as soon as the chrysanthemums go by carnations are planted in the boxes. In this climate they do not have to be housed till along in November to have plenty of time to bring them into bloom by the holidays. Domoto Bros. had an auratum lily with forty-six flowers from our bulb, which they sold to Frank Pelicano, the well known florist on Kearney street. It attracted a great deal of attention. They have lately been putting in a heating plant and are now erecting two new houses, 22x100, with southern exposure. One house will be for palms and the other for chrysanthemums and carnations. With this addition they will have 30,000 feet of glass.

Cut flowers were pretty well used up this week, owing to the funerals of the five deputy sheriffs who were killed in the above mentioned explosion. They were given a public funeral and the floral work was sent from all quarters.

Scott and white carnations are exceedingly scarce. We are beginning to have warm weather and the roses and carnations are showing its effect, Portia coming small and spotted. From the number of growers that have gone into carnation culture I think there may be an over supply for next winter and spring. Smilax is being planted again by some growers, as good strings have sold for some time at from $10 to $12.50 per hundred. For the last few years it has been selling at $5 per hundred, and consequently a good many of the growers found it a non-paying crop. It can be grown here in a lath house, and the foliage is good till New Year's. G. N. T.

Detroit.

FLORISTS ORGANIZE A CLUB AND PLAN TO INVITE THE NATIONAL SOCIETY TO THEIR CITY NEXT YEAR.—BUILDING OPERATIONS ARE NUMEROUS.— GRASSHOPPERS ARE WORKING CONSIDERABLE DAMAGE.—NO CHRYSANTHEMUMS IN POTS THIS YEAR.

Frank Holznagle, of Highland Park, is building two new greenhouses each 20x200 feet. He has a very fine lot of carnations in the field but is having a fight with grasshoppers, which eat asters, roses, carnations and everything that lies in their way. He says that he will have to lift the carnations, and plant them inside to escape. Some of his chrysanthemums in pots are covered with netting for protection against the pests. Perhaps some of the readers of the AMERICAN FLORIST can give some welcome advice as to methods of stopping or poisoning them for if they last much longer the loss to the florists near this city will be quite serious.

Chrysanthemums here are planted and looking well. Pot plants are not grown in any quantity this season as our florists complain that they did not pay last year.

Considerable building is in progress in this vicinity. Chas. Warneke has bad plans drawn for a very fine show house with cut stone front and plate glass windows. Geo. A. Rackham has built one house 20x150. The frame and bars are up and painted and benches are in, leaving the glass out until fall. This house is planted with chrysanthemums and looks very fine. The plants are short but full of good, large foliage and promise well for fall cutting. His carnation houses are full of last winter's plants which are producing good salable stock with no signs of spider after all this hot weather.

Twenty of the Detroit florists met July 28 and formed a florists' club. Philip Breitmeyer was elected president; Bruno Schroeder, vice-president and Robt. Flowerday, secretary. A committee was appointed to solicit membership, and also to make an estimate of the expense and means of entertaining the Society of American Florists next year in this city. Every one seems to be in favor of inviting the society here and everything will be settled at the next meeting, prior to the departure of several of our members to Omaha.

The Municipal League met in this city this week and on Tuesday evening Belle Island park was illuminated for them, the banks of the lake being covered with electric lights in colors. We are proud of our park and when decorated as it was this week it is worth going a long way to see. It should be one of the attractions for the S. A. F. meeting. F.

Pittsburg.

BUSINESS AND CROP SITUATION.—WHOLESALE AND COMMISSION ESTABLISHMENTS GALORE.—TWO FIRMS PREPARE TO GO INTO BUSINESS.—SEMPLE'S GLADIOLI ARE SUPERLATIVE IN QUALITY.

There has been a marked improvement in the weather, several very greatly needed rains having fallen, and the outlook for the outdoor stock is vastly improved, although business is very quiet at present.

The question discussed at the last meeting of the club, the advisability of opening a cut flower commission house, has been settled this week in the affirmative. Fred Burki, the wholesale grower of Bellevue, T. P. Langhans, of Langhans & Co., and Will A. Clark, for years with Messrs Elliott & Ulam, have organized the Pittsburg Cut Flower Company, Limited. Mr. Burki is president, Mr. Langhans, secretary, and Mr. Clark, treasurer. On September 1 they will open a store at 705 Penn avenue, a very central location, easily reached both by the Allegheny and Pittsburg florists.

The present time seems to be thought propitious for starting commission flower houses here, as Mr. S. S. Skidelsky and one of the Fischer Bros., of New Castle, report they will open such an establishment about September 15. Several of our florists are very well pleased that we are at last to have a commission house, and some say two will be better for the trade than one. There is one element of success very prominent in the ventures, and that is the competency and ability in

the florist line of those who are undertaking them.

Mr. Langhans will retire from the firm of Langhans & Co.; the business will be carried on at the same stand, Allegheny Market, by the remaining partners, the Britenbaugh brothers, whose greenhouses are at Bennett.

James Semple, of Bellevue, is making a specialty of growing fine gladioli. The display at his stand in the Allegheny Market is a grand one; the majority of spikes of blooms are over six inches in width and eighteen inches in length. He is devoting the same painstaking care to their development and improvement that he does to his well known strain of asters, and with the same result, unusual excellence.

Mr. Henry D. Rohrer, Lancaster, Pa., was with us this week. REGIA.

Obituary.

The readers of the AMERICAN FLORIST will regret the death of Benjamin Borden Hance, which occurred in the early part of June at his former home near Red Bank, New Jersey.

During the time that New York was a prominent candidate for the World's Fair Mr. Hance was active in preparing and beautifying Riverside Park as the hoped-for site. In 1893 he came to Chicago, and since then had been employed by the Pullman Company as horticulturist for the town of Pullman. He was a man universally loved for his sterling integrity and courteous bearing. By those in his profession he will be missed, as he was not only cheerful and ready to impart, but open to information in anything to advance his profession, and was a pleasing conversationalist. In his early life he was a prominent nurseryman in New Jersey, where he was widely known. He was of Quaker parentage and it was always his endeavor to practice the principles of the faith wherever duty called. Mr. Hance was taken with the grip in the early part of the year and never recovered. He was about 65 years of age. The remains were placed in a private cemetery at Rumson's Neck, near Red Bank, New Jersey.

Helpful Reminders.

Before repairing your benches see that the heating pipes are in order. You can get at them best now while the benches are unoccupied. Get the leaky joints all cleaned out first, then go over the pipes carefully with a level and see that they all rise a little from the boiler and that the supports are in good condition. If a joint does not fit snugly put in a heavy piece of rope or oakum first, and then pack it with iron chips, which will join two pipes together as one. When you have a lap of one inch, the chips must be of cast iron, not wrought, and must be clean, no oil on them. Get your roof in order thoroughly, not simply because a leaky roof is unpleasant and lets in cold at greater expense. Your stock suffers more than either you or your pocket book. You cannot control matters with a bad roof.

Asparagus will be blooming now and you should mark a few pieces with a ribbon to prevent its being cut so that you will get some seed. It is worth one cent a seed and will pay you to save it.

All your potted ferns should have their shift at once. The major portion of the fern business is with the very small plants used in pans, and too little care is taken of plants that become too large for that purpose. This is a great mistake as the larger specimens are the most beautiful and should be taken care of. Clean up every plant you have, give them good soil and moisture now and beware of chilly mornings, for condensation on the fronds is as bad for ferns as for roses. In shifting ferns, unlike most other plants, a quantity of dead stems and worthless roots are to be carefully pulled out. They require but little sun and strong draughts are a detriment.

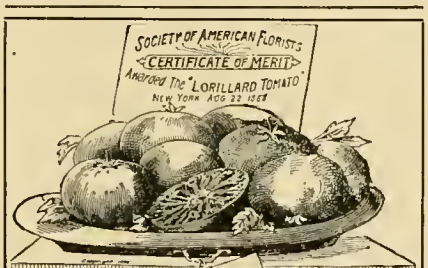
It is now time to prepare your Harrisii bulbs for early blooming, but there has been so much said about Harrisii that anything additional would be more of a re-hash than a reminder. Do not discard or neglect the candidum lilies because they are not as much talked of as other flowers. A few of them well grown, with delicate blue larkspur are beautiful and are sure to come in conveniently.

You cannot afford to be without a bed of lily of the valley for bloom, and for furnishing clumps to customers. Beds that have become over crowded and impoverished should have a careful overhauling now. C. B. W.

Crimson Rambler Rose.

A specimen of above planted March, 1895, from a 4-inch pot and cut down to the ground at time of planting, had at the very lowest figure 11,750 flowers this season. There were six shoots six to eight feet long, after having one-third cut off last spring; 235 bunches in all with an average of at least fifty flowers to the bunch. The largest bunch bore 123 flowers. We always cut back our plant as soon as its beauty is over, taking off all the wood that produced flowers, and leaving as many new growths as we think advisable. We have ten running up now for flowering next season.

Massachusetts. R. N.



A Profitable Side Crop.

The tomato is one of the profitable side crops for the florist if properly handled. An important item in proper handling is to start right by getting proper seed. Experience has proven the "Lorillard" the best forcing variety so far; but much of the seed now on the market is not carefully selected as to type. I have taken pains to find something free from this objection and have pleasure in offering

Lorillard Forcing Tomato...

Specially saved for my trade by the originator, Mr. Jno. Gardner. Pkts., 25c. 50c and $1 00, free by mail. Bulk price on application.

Sutton's Best of All Forcing Tomato

Has done remarkably well with those who tried it the past season. I do not know how it is for outside, but it's a dandy for forcing; large, round, deep scarlet, very prolific. Pkt. 40c, mailed free. (No bulk of this to offer at present). Give this new sort a trial. Stamps accepted for small amounts.

GEORGE C. WATSON

Seedsman.....
Juniper & Walnut Streets.

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Hardy Perennials, Aquatics (especially new and scarce varieties), Azaleas, Rhododendrons, Hydrangeas and Conifers, beg to announce that their catalogue containing a good many rare and new plants is in the course of preparation and copy may be had on application.

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One Million

Flowering Shrubs; full assortment; all sizes.

Half Million...

Deciduous Trees for street, lawn and avenue planting.

200,000 Vines, Iris, Clematis, Actinedia and other sorts. Correspondence solicited.

THE WM. H. MOON CO.
MORRISVILLE, PA.

FOR FALL '98 AND SPRING '99 DELIVERY

A SPLENDID ASSORTMENT OF

FIELD-GROWN HARDY ROSES

Clematis, Ornamental Shrubs and Trees, Pæonies, Herbaceous Plants, Small Fruits, Fruit Trees.

Special quotations gladly submitted by letter.

Jackson & Perkins Co. Newark, New York.

HARDY SHRUBS

Assorted in 25 Varieties.

My selection $50 per 1000. Descriptive catalogue and price lists for the trade.

SAMUEL C. MOON,

MORRISVILLE, - Bucks Co., PA.

OUR SPECIALTIES ARE

Azaleas, Roses, Rhododendrons

New and rare hardy plants for forcing. Novelties in Ferns (raised by the largest London grower). The newest and best varieties of roses, H. P. and Tea scented, from a French raiser. Write us and ask for quotations. We import direct to Boston to meet the demand from Canada and New England States.

F. Brunton & Co. IMPORTERS & EXPORTERS OF NEW AND RARE PLANTS.

136 Boylston St., BOSTON, MASS.

HARDY

Herbaceous Perennials

THE MOST COMPLETE STOCK IN AMERICA.

PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

JACOB W. MANNING,

The Reading Nursery, READING, MASS.

ESTABLISHED 1854.

PINEHURST NURSERIES,

PINEHURST, N. C.

COLLECTED

Rare NORTH CAROLINA Woody and Herbaceous **SEEDS**

A SPECIALTY.

ASK FOR LIST AND DISCOUNTS.

It is good business policy to mention the

....American Florist

when you write to an advertiser.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

J. ENGLEMAN has retired from the Nebraska Seed Co.

E. W. BURT, of S. L. Allen & Co., is making a two months' trip to Europe.

S. Y. HAINES is making a visit to his old home in the south.

EUREKA, KAS.—James Curry shipped a car load of blue grass seed to New York on July 30.

FRANK FORD & SONS, of Ravenna, O., on August 1, changed the name of their concern to the Ford Seed Company.

ABIN WOOD, of Hawarden, Iowa, has gone on the road for his fifth season with L. L. May & Co., seedsmen, of St. Paul.

MINNEAPOLIS, MINN.—A. Currie, of Currie Bros., Milwaukee, is in the city and reports seed trade in general to be excellent.

GAINESVILLE, FLA.—P. F. Wilson has removed his seed store from the Pedrich & Smith building to a better location on the east side of the "square."

THE Landreth Seed Company picked over 3000 bushels of peas from a forty acre tract at Sheboygan, Wis., July 29. The pea season in that vicinity was short this year because of the lack of rain.

S. L. ALLEN and H. M. Claire, of the Planet., Jr., concern, lately returned from a six weeks' trip to California. Mr. Claire reports that although the excessive drought which has prevailed on the coast this season has greatly damaged the present crop of sugar beet, this industry is without doubt a growing and important one.

Holland Bulb Prospects.

Late advices from Holland confirm reports published some time ago in regard to the bulb crop in that country during this season. The "Verzendersbond," an association of twenty-one of the leading growers, issue a circular as follows: "Owing to an abnormally mild winter, followed by severe spring frosts and cold winds, the hyacinth crop has suffered much, and the percentage of large bulbs in these will be very small. Tulips and narcissi will be of about medium size, these not having suffered so much as hyacinths."

Nebraska Crop Report.

The prospects for a crop of vine seeds this year are very fair. Early in June we had too much rain, both the Elkhorn and Platte rivers overflowing their banks to a limited extent, damaging a few odd crops. Since that time there has been practically no rain until Friday morning, July 29, when we had a nice shower.

Melons have made a very fair growth and appear to be well set with fruit; the stand of watermelons, however, is rather light. Cucumbers are doing well, and with the recent rain will probably commence setting fruits at once. Squash have been damaged somewhat, the large black squash beetle having injured some crops, but thus far are not so bad as last year. The seed corn crops, especially the sweet varieties, are injured to quite an extent, and will be at least one-third short of an average crop; as some land dried worse than other, it will affect some crops seriously. Field corn stands more dry weather than sweet corn and is not injured as much, but the best farmers here estimate their yield as being cut short at least ten bushels to the acre. The recent rain will help late crops, and perhaps give a full yield, but nearly all crops were just shooting out ears during the dry weather, and all such crops will be cut down.

California Crop Report.

The onion crop is now being harvested in this section and the shortage is keenly realized by the various growers, as the continued drought and extreme heat of the past two weeks caused 45% of the onion stalks to fall to the ground. The seed gathered from these stalks will be very light and will show a low growth, if any. I might say in this particular, the seed from the crop of 1897 or even the crop of 1896 will be superior in germination to the seed from the crop of 1898. I stated in your paper over my signature that onions would produce an average of 150 pounds per acre in this state, but the conditions have so changed since I made this statement that it is now too high and will not average 100 pounds per acre. I am not reporting on any one crop, but on the conditions that exist over the entire seed district, though some will harvest 500 pounds per acre. The acreage is not over 30% of the amount usually planted. In conversation with the second largest grower on the coast, July 29, he authorized me to say that the condition of crops had changed so materially for the worse that he would be unable to fill his 1898 contracts over 25%, with the possibility of a further reduction to 15%, and would so write his customers the coming week. There are other shortages of onion seed existing among the growers of 1898 crops that will be reported soon to the eastern trade. A conservative grower claims the general shortage to be fully 200,000 pounds of onion seed, standard varieties.

The celery crop is about a failure; some seed is carried over by the larger growers. Lettuce, poorer than in years; small acreage. Spinach did not pay for the rental of ground and cost of harvesting. Carrot is very short, not over 25% of average crop; many roots rotted. Salsify, only fair amount harvested. Very little parsnip planted here this season. Radish about destroyed. There are several large tracts of sugar beet here this year, grown for the sugar factories, experimental purposes and for comparison with French and German seed. From recent tests some complaint is made about the vitality of California seed. The crops look well, considering the year, and if California could overcome the German and French laborer at 40 cents per day, the growing of sugar beet seed would be a large feature of the industry here; but with *no duty* California has but one advantage over the German and French farmers, viz., the freight, which amounts to less than one cent per pound.

Sweet peas have been a losing crop for the legitimate grower; a few stray lots produced by farmers may have paid where no work or expense was incurred in rogueing the crop. Burpee's New Pink Cupid is a gem and will be a taking novelty and give excellent satisfaction to the retail buyer. The flowers are large and the plants remain in blossom very late compared with the taller sorts. Other seeds are in limited amounts only.

A large eastern dealer has quite an acreage of pole beans here that are being irrigated, but in my judgment they will not make a crop.

CHARLES P. BRASLAN.

Santa Clara, August 1, 1898.

The American Florist Company's New Directory.

The best novel feature of the latest edition of the American Florist Company's new directory is the alphabetical list of all persons in the floral, seed and nursery trades of the United States and Canada. All names are still preserved under states and towns, as in the earlier issues of the book, and it contains the usual array of miscellaneous information invariably associated with directories and reference books. The price of the book in stiff covers is $2.00; in flexible leather binding, $3.00.

SEEDS LAWN GRASS $12.00 per 100 lbs.
Finest Quality Ever Offered (Retails @ 30c. lb.)
J. CHAS. McCULLOUGH, SEEDSMAN,
RECLEANER AND JOBBER GRASS SEEDS.
North-East Corner Second & Walnut Sts., Cincinnati, O.
Send for Illustrated Catalogues.

BURPEE'S SEEDS PHILADELPHIA.
Wholesale Price List for Florists and Market Gardeners.

TRY DREER'S GARDEN SEEDS,
Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER, Philadelphia, Pa.

COLD STORAGE VALLEY ALWAYS ON HAND.
CASES of 2500 pips, extra quality, $25.00; per 1000, $12.00.
CASES of 3000 pips, good quality, $25.00; pe 1000, $10.00.
CLUCAS & BODDINGTON CO.,
501 & 503 West 13th St., NEW YORK CITY.

"BEST OF ALL" TOMATO (FOR FORCING)
"ENGLISH" MELONS (FOR FORCING)
FLOWER SEEDS FOR FLORISTS
Catalogues on application.
WEEBER & DON, Seed Merchants and Growers,
114 Chambers St., NEW YORK, N. Y.

August Rölker & Sons,
Send $1.00 for one trade packet each of
Cineraria Primula Pansy SEEDS
In choicest strains. Our list quotes all other florists seeds and bulbs. For trade lists, address
52 Dey Street, - NEW YORK.

HOW TO GROW MUSHROOMS My 24-pp. booklet on M. Colt. free to buyers or intending buyers of spawn; to others, 10 cents. New supplement on out-door culture by JNO. G. GARDNER, included. First importation of the new spawn due at this port Aug. 25. Prices on application.
C. C. Watson, Juniper & Walnut Sts., Phila, Pa.

Before Thursday Noon...

ADVERTISEMENTS for the annual Convention Number of the American Florist should reach this office before noon on Thursday, August 11, to insure good display.

The Omaha Number will eclipse all previous special issues of the American Florist both in the value of its special features, its typographical excellence, its circulation and its business bringing power.

The Advertising Rates for this issue will not be increased. $1 will buy an inch, $10 will buy a column and $30 will buy a page. Those who are advertising on time contracts will receive the contract discount upon increased space.

You'd Better Hustle

New Orleans.

THE CRESCENT CITY EXPERIENCES A DULL SEASON.—GOOD PROSPECTS WHEN THE NORTHERN PEOPLE BEGIN TO ARRIVE.—THE HORTICULTURAL SOCIETY ELECTS OFFICERS AND CELEBRATES ITS ANNIVERSARY.

There is nothing selling at the various markets. It has been this way for several months, and the period of inactivity will probably continue until fall, when the local social life awakens with the advent of the northern pleasure seekers.

The New Orleans Horticultural Society at its last meeting elected the following officers: J. H. Menard, president; Emile Valdejo, vice-president; Dan Nensham, secretary; John Eblen, treasurer.

The society celebrated its anniversary by a picnic at Grand Isle, in the Gulf of Mexico. This would be the finest resort in the south were it not for the terrific hurricanes which have several times swept it. A portion of the isle is high and, although the soil is very sandy, is well adapted to the cultivation of early vegetables. It is kept fertile by using as a fertilizer the fish which are easily caught for this purpose. Cauliflower is the principal crop. The members who participated in this outing with their families were: C. W. Echling, Harry Papworth, Charles Eble, T. Desweit, Frank B. Faessel, C. R. Panther, Dan Nensham, John Eblen, Justin Decamus, Paul A. Cele, J. A. Shalk, Emile Valdejo, R. P. Steckler, M. M. Lapouyade and R. E. Simons. M. M. L.

Toledo, O.

Everyone has been very busy all summer in preparing for what we all believe will be an unusually good fall season. Trade has not been very brisk since spring bedding ended, but few of us have noticed the absence of customers, so fully occupied have we been in caring for our stock. There is very little transpiring here. No building is in progress, although nearly everyone is making some improvements in the nature of repairs. From present indications Toledo will not be represented at Omaha, although the reduced fare may attract some one at the last moment. We have passed through a very moist period, but despite the frequent rains carnations in the fields are in exceptionally good condition and, in fact, all young stock is in fine shape. E. A. H.

ROSE HILL NURSERIES.
Special Offer:
CROTONS. 4 and 5 inch pots, highly colored, $35.00 and $50.00 per 100.
FERNS for jardinieres, in six varieties, 2¼-inch pots (ready for 3-inch pots), $35.00 per 1000.
SIEBRECHT & SON, New Rochelle, N. Y.
TELEPHONE 151.

The LELER GRAND
HOTEL, OMAHA.
A new, strictly first-class, fire-proof **EUROPEAN HOTEL**
Three Cafes in Connection, Centrally Located, Reasonable Rates.
(See hotel list in this paper.)

Convention Headquarters
FOR THE SOCIETY OF AMERICAN FLORISTS WILL BE AT THE . . .
FIRE PROOF HOTEL DELLONE
COR. 14th and CAPITOL AVE.
Special rates have been secured: $1.00 European Plan; $2.00 American Plan
Engage rooms in advance.
Address **W. W. COATES, Omaha.**

Forcing Roses
FIRST-CLASS, CLEAN, HEALTHY STOCK.

We claim **GOOD VALUE** at these prices. Send for samples.

	2½-in. per 100	3½-in. per 100
American Beauty	$6.00	$12.00
Papa Gontier	4.00	10.00
Pres. Carnot	4.00	10.00
La France	4.00	10.00
Mlle. Helena Cambier	4.00	10.00
Kaiserin A. Victoria		9.00
Perle des Jardins	3.50	9.00
Brides	3.00	8.00
Bridesmaids	3.00	8.00
Meteors	3.00	8.00
Clothilde Soupert	3.00	8.00
Mosella	3.00	8.00

Asparagus Sprengeri, 2-in. pots, strong....per 100, $5 00
Asparagus Plumosus, 2½-in. pots, fine stock " 7.00
Boston Fern 2½-in. " 6 00
Nephrolepis Exaltata, 4-in. " 15 00
Ferns in assortment, 2½-in. " 4 00
Araucaria Excelsa, 6-in. pots, 15-18-in. high @ $1 50 each
Cocos Weddeliana, 3-in pots @ $2 50 per doz.
Kentias, Arecas, Latanias, etc., large quantities in all sizes. Write for Special Prices, on sizes you want.

VAUGHAN'S SEED STORE,
Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

PALM *Seed.* FRESH ON HAND
All kinds of PHOENIX SEEDS.
A new shipment of Kentia Belmoreana and Forsteriana will arrive in a few weeks....
J. L. SCHILLER, 404 East 34th St., NEW YORK CITY.

CHINESE PRIMROSE PLANTS.
Strong and well grown, ready for 3-inch pots. Acknowledged by florists as the finest strain of Primroses to be had. Single vars in finest named colors. $2 50 per 100, $20 00 per 1000; double white, red and rose, $4 00 per 100. Extra plants added to help pay expressage. Adams and U. S. Express. Cash with order, or one-half cash and balance C. O. D.
JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.

ROBT. CRAIG & SON
Roses, Palms
and Novelties in Decorative Plants.
Market and 49th Street, PHILADELPHIA PA.

ASPIDISTRA Lurida fol. var. just now in good condition without leaves, good roots with sprouts, $6 per 100; sample, 90c per doz. postpaid. **Canna "Florida"** for trial 10 cents.
Asparagus Sprengerii Seed.... { 100, $1.00 / 1000, 8.00
Fresh from the vines.....
Pampas Grove Nurseries, Greenland P. O., Florida.

Asparagus Sprengerii
SEEDLINGS ALL SOLD.
Fine Plants, $8.00 per 100. Sample by mail 10 cents.
American Rose Co., Washington, D. C.

Always mention the.....
American Florist
when writing advertisers.

EXTRA HEAVY **Clean Stock!**
Kentia Belmoreana
6-in., 5 to 7 leaves....$15 to $24 per dozen.
5-in., 5 to 6 leaves..... 12 "
Kentia Fosteriana
6-in., 5 to 6 leaves.....$12 to $18 per dozen.
5-in., 4 to 5 leaves..... 9 to 12 "
FIELD GROWN **CARNATIONS...**
A fine lot will be ready for Sept. delivery.
THE COTTAGE GARDENS
QUEENS, N. Y.

PALMS and FERNS

The Largest Stock of PLANTS IN THE WEST
GEO Wittbold 1708 N. HALSTED ST CHICAGO

E. G. HILL & CO.,
RICHMOND, INDIANA.
Cycas Revoluta Stems
Popular sizes, 3 to 6 lbs each.....10 cts. per lb.
Please Mention the American Florist.

Azaleas
Palms
Bay Trees
Araucarias
THE FINEST STOCK IN THE WORLD
SANDER,
BRUGES, BELGIUM.
AGENT:
A. DIMMOCK,
60 Vesey St., NEW YORK.
Mention Am. Florist when writing

JOSEPH HEACOCK
WYNCOTE, PHILA., PA.
—GROWER OF—
ARECA LUTESCENS,
COCOS WEDDELIANA,
KENTIA BELMOREANA,
LATANIA BORBONICA.

Orchids!
IMPORTED and Established Stock of A-1 quality always on hand. Also a complete line of best **Cherrywood Baskets, Fresh Moss and Peat, etc.**
LAGER & HURRELL, SUMMIT, N. J.

SMILAX
Fine stock, ready to run as soon as planted, winter sown and several times headed back, 2½-inch pots, $2.50 per 100.....
NATHAN SMITH & SON, ADRIAN, MICH.

SMILAX Extra strong, 3-inch at $2.50 per 100; also some 3-inch CYCLAMEN, 75c to $1.00 per dozen.
W. P. RANSON, Junction City, Kan.

AGAIN

...FIRST...
Roman Hyacinths
Of the Season Now Ready!

A FEW OF OUR SPECIALTIES:
"London Market" Brand Lily of the Valley Pips,
Japan Lilium Longiflorum,
Lilium Harrisii,
Azalea Indica and
Bermuda Grown Freesias.

Lilium Harrisii,
Narcissus Paper White Grandiflora,
Freesias { Bermuda, French and American } **Grown**

FULLY MATURED STOCK OF ABOVE **ALSO READY!**

PRICES LOW CONSISTENT WITH QUALITY.

Vaughan's Seed Store,

HEADQUARTERS FOR "FANCY" BULB STOCK.

CHICAGO: 84=86 Randolph Street. NEW YORK: 14 Barclay Street.

FORCING ROSES

	2½-in. Per 100	Per 1000	3½-in. Per 100
BRIDE	$2 50	$22.50	$ 4 00
BRIDESMAID	2.50	22.50	4 00
METEOR	2.50	22.50	4.00

White, Pink and Yellow Ramblers, same. Moonvines $20.00; Alternantheras $18.00 per 1000.

THE NATIONAL PLANT CO., Dayton, Ohio.

3-INCH ROSES—Fine.

1000 fine Perles, sure to please.
600 Beauties, 3 and 3½-inch. 2000 Brides.
600 Meteors. 1000 Maids.

All of this stock is in the very best condition, and will be sold low. Write for prices

W. H. GULLETT & SONS, Lincoln, Ill.

2000 RUBBER TREES, in perfect health; none better; 5½-in., $50 per 100. 6-in., $65 per 100; 70c each.
100,000 YOUNG LATANIAS, strong. $25 per 1000.
ARALIA SIEBOLDII, 5½-inch $25 per 100.
65,000 PALMS, in variety
25,000 FERNS for dishes. 2½-inch. $2.50 per 100
SWORD FERNS, 4½-inch. $12 50; 5½-inch. $35; 6-in. $50 per 100
[World's Fair Medal awarded on Palms]

ALBERT FUCHS, 2059-73 N. Halsted St. CHICAGO.

Asparagus Sprengeri

50 000 Plants in 2½-inch pots, $5 00 per 100. Express: 24 for $1.50 by mail. Specimens for 8-in. pots, $6 00 per 12.

A. BLANC & CO., Philadelphia

Dutch Bulbs

HYACINTHS, TULIPS, CROCUS, ETC.

RUDOLPH VAN TIL & CO.,
Hillegom, Holland.
American Representative

L. C. BOBBINK, Rutherford, N. J.
ASK FOR CATALOGUE.

BULBS For FLORISTS.. For SEEDSMEN.

VAN ZANTEN BROTHERS,
HILLEGOM, - HOLLAND.

ROSE PLANTS! OUT OF 2½ INCH POTS

AMERICAN BEAUTIES	$5.00 per 100.	$45.00 per 1000.
METEORS	3.00 per 100.	25.00 per 1000.

Wietor Bros.,

Successors to... ROGERS PARK FLORAL CO.

Wholesale Growers of CUT FLOWERS ROSE PLANTS...

51 WABASH AVENUE, ...CHICAGO...

40,000 FIRST QUALITY FORCING ROSES. READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years. first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

AMERICAN BEAUTY	LA FRANCE		PRESIDENT CARNOT
	3-inch pots, $8.00 per 100.	4-inch pots, $12.00 per 100.	
METEOR	KAISERIN	SUNSET	BON SILENE
PERLE	MME. HOSTE	NIPHETOS	BRIDE
BELLE SIEBRECHT.	3-inch pots, $7.00 per 100.	4-inch pots, $10.00 per 1000.	

J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphetos, Kaiserin, 3 and 4-inch.

Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted.

A. S. MacBEAN, Lakewood, N. J.

ROSES Brides Bridesmaid ...Perles

3-inch Pots, $4.00 per 100.

200 Grafted Bridesmaid
4-inch Pots, $10.00 per 100.

S. J. REUTER,
WESTERLY, R. I.

Choice JUBILEE and FLORA HILL CARNATIONS, in 3-inch pots, at $4.00 per 100.
Also SMILAX, in 3-inch pots, at $3.00 per 100.
ROSES in 3-in. pots, Brides, Siebrecht, Meteor, in 2½-in. pots, Maids, Brides, Beauties.
Send 50c or $1 00 for samples and prices to
GEO. A. KUHL, PEKIN, ILL.

Please mention the American Florist

FOR FORCING!

Brides and Bridesmaids, 3 and 3½-inch pots, prepared for forcing, fine plants....$4 per 100.
Bon Silene, Ophelia, Mme. Schartr.. 4 per 100.
SMILAX, 2-inch pots..... 1 per 100.
At these prices, cash invariably with the order.

F. WALKER & CO.
Box 316.... NEW ALBANY, IND.

ROSES..

	2-in. per 100	3-in. per 100
Am. Beauties		$5.00
Perle	$2.75	4.50
Bridesmaid	2.75	4.50

MAPLEWOOD CUT FLOWER and PLANT CO.
PLEASANT HILL, MO.

Good Smilax to make room. 12½ cents per full string. Express prepaid..... Orders filled on short notice. Cash with order, please.
HENRY C. SCHWIEMANN, Danvers, Ill.

Montreal.

THE GARDENERS' AND FLORISTS' CLUB HOLDS ONE OF ITS MOST SUCCESSFUL FLOWER SHOWS AND GIVES A PICNIC WHICH WAS A RECORD BREAKER IN ATTENDANCE AND IN PLEASURE.—PRIZE WINNERS.

The Montreal Gardeners' and Florists' Club gave one of the most succesful of its flower shows on July 25. The exhibits were more profuse and better grown than usual and the attendance was quite large. At the end of the evening the cut blooms were distributed among the hospitals. The judges awarded the premiums as follows:

Pansies, twenty-five mixed, first, Geo. Trussell, gardener to J. H. R. Molson; second, Geo. Cadman, gardener to A. A. Ayer; third, J. Stenning, gardener to W. Yuile. Fifty mixed, first, Geo. Trussell; second, W. Horobin, gardener to R. Reid.

Sweet peas, fifty mixed, first, J. Pidduck, gardener at Mount Royal Park; second, Geo. Trussell; third, W. Horobin. Twenty-five mixed, first, Fred Bennett, gardener to R. Mackay; second, W. Horobin; third, Geo. Trussell. Twelve mixed varieties, first, W. Horobin; second, J. Stenning. In the six classes for self colors, white, pink, red, yellow, purple and blue, and in the class for striped varieties, twenty-five blooms to a vase, J. Eddy, gardener to Mrs. Redpath, won first prizes.

Zinnias, twelve blooms, first, C. A. Smith, gardener to T. A. Dawes; second, Geo. Robinson, gardener to A. Joyce.

Marigolds, first, Geo. Robinson; second, Geo. Trussell and C. A. Smith, tie.

Dahlias, C. A. Smith first in four classes, J. Eddy first in one.

Salpiglossis, best twelve, Geo. Robinson, first; W. Whiting, gardener to Mr. Musson, second.

Gaillardias, Geo. Robinson, first; Geo. Trussell, second.

Phlox Drummondii, first, C. A. Smith; second, Geo. Trussell.

Verbenas, Geo. Robinson; double petunias, C. A. Smith; tuberous begonias; J. Stenning; mignonette, T. W. Bennett; exhibit carnations, W. Alcock; antirrhinum, Fred Bennett; perennial phlox, J. Pidduck; double hollyhocks, Geo. Trussell.

Cannas, six varieties, Geo. Robinson; three varieties, C. A. Smith.

Special premiums were awarded to Geo. Trussell for perennial peas and hardy roses, to J. Stenning for Vallotta purpurea, to H. Phillips for scabiosa and Heroine peas, to Fred Bennett for semi-double petunias and to C. A. Smith for Virgin thistle.

The club held its tenth annual picnic on Isle Grosbois July 28. Over 400 members and their friends were present, and it was an occasion of unusual pleasure. There was the customary picnic repast and programme of sports, embracing all lines of athletics from a cricket match to a foot race for five-year-old girls. The cricket match resulted in a victory for the Florists over the Gardeners by a score of 79 to 56. In the quoit contest W. Hazel was first, E. Edwards, second, and C. Clarke, third. In the race for members over forty years of age A. A. Kirby won, Geo. Trussell was second and H. Phillips, third. Frank Bennett defeated Robert Brimstone and the other members under forty.

WILLIAMSBURG, N. Y.—Henry Winfield, 27 years of age, who is a florist at 214 Bedford ave., was arrested for "scorching" on his bicycle. He gave the mounted police officer a lively chase before he was overhauled. He wore a suit of racing tights.

New Crop Pansy

VAUGHAN'S "International Mixture"

Received the only reward for Mixed Pansies at the World's Fair. It is today better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. **Price, per oz., $10; 1-2 oz., $5; 1-8 oz., $1.50; trade pkt., 50 cts. (less 10 per cent for cash.)**

VAUGHAN'S "Giant Pansy Mixture"

This mixture is specially made up by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had in any other way. If your trade demands large flowers there is no better mixture. **Price, per oz., $4.00; 1-4 oz., $1.25; 1-8 oz., 70 cts.; large trade pkt., 50 cts.**



GIANT TRIMARDEAU. Mixed, oz., $1.00; ¼-oz., 30c; pkt., 10c.
"CHICAGO PARKS BEDDING" MIXTURE, oz., $1.00; ¼-oz., 30c.; pkt., 10c.
SEPARATE COLORS—For price of these see Special Pansy Seed Circular, sent on application.

We make SPECIAL MIXTURES for florists who have preferences in the composition and proportions of colors and types.

VAUGHAN'S SEED STORE

NEW YORK: 14 Barclay St. 84 & 86 Randolph St., CHICAGO.

ROSES! ROSES!

Brides and Meteors from 2-inch, $3.00 per 100; $25.00 per 1000.
Kaiserin and Meteors, from 3-inch, $5.00 per 100; $45.00 per 1000.
Am. Beauties from 3-in., $5.50 per 100; $50 per 1000. 50 at 100 and 500 at 1000 rates. Cash with order.

ROBERT F. TESSON,
West Forest Park, - St. Louis, Mo.

ROSE PLANTS Per 100

5000 AMERICAN BEAUTIES, 3-inch, $5.00
350 SUNSET..... 3-inch, 4.00
700 BRIDESMAIDS..... 3-inch, 3.00
1400 METEORS..... 2½-in., 2.00
Fine, healthy stock; good size.

FIRST COME, FIRST SERVED.

A. G. PRINCE & CO.,
90 and 91 Wabash Ave., CHICAGO.

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Maids, Brides, Perles and Meteors, in 4-inch pots, $8.00 per 100.
Kaiserin, Perles, Meteors, Maids and Brides, in 3-inch pots, $6.00 per 100.
VIOLETS, Marie Louise, in 2½-in. pot, $3.00 per 100.
BEGONIA REX in 4-in. pots.....$20.00 per 100.
All of the stock is in fine healthy condition.

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With Good Heads and Substantial Feet.....
BRIDE
BRIDESMAID
GONTIER

$10.00 per 100; $80.00 per 1000. From 4-inch pots, and they are good. Other desirable sorts in limited quantity.

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300 NIPHETOS, 4-inch.
300 MAIDS, 4-inch.
POINSETTIAS and SMILAX.
Clean, healthy stock.

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2000 BRIDESMAIDS, 3-in. pots.... } $2.75 per 100
2000 BRIDES, 3-in. pots.....
FIRST-CLASS STOCK.

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AMERICAN BEAUTY

Fine young plants, healthy and strong. 3-inch pots, $10.00 per 100; $90.00 per 1000.

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Money Order Office, Station H, Phila.

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BRIDES, 3½-in.....$4.00 per 100
BRIDESMAIDS, 3½-in..... 4.00 per 100
METEORS, 3½-in..... 4.00 per 100
Very choice; grown for our own use. May be returned at our expense if not satisfactory.

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Successful Growers are Wanted

To know that they can dispose of all their surplus stock by advertising in the American Florist. TRY IT NOW.

Roses and Chrysanthemums

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BRIDES, MAIDS, METEORS,
3-in., $5 per 100; $45 per 1000; 4-in., $6.50 per 100.

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3-in., $6 per 100; $55 per 1000; 4-in., $7.50 per 100.

2½-in. stock of Glory de Pacific, Maud Adams, Lady Fitzwigram, Bergmann, Bonnaffon, Robinson, Modesto, Perrin, Viviand-Morel, Maud Dean, Maud Adams, Emil and Gretchen Buettner, Yellow, White and Pink Jones, D. Spaulding, Lottie Berry, Henderson, Crawford, Snowball, Defender, Mayflower, Thanksgiving, Withers, Murdock, Golden Trophy, M. M. Johnson, Sunderbruch, Merry Monarch, Marquis de Montmort, price $3.00 per 100.

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2½-in. strong bushy plants nearly ready for shift, $1.00 per 100; $8.00 per 1000. A few hundred 3-in., $1.75 per 100. Samples by mail 10 cents. Cash with order, please. Write for terms on large lots. Will exchange some for small Adiantum or Asparagus.....

Transplanted Celery Plants $2.00 per 1000.
White Plume and Giant Pascal.

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Mme. Bruant, 2½, " $3
Mixed new and standard varieties..... $2
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CYPRESS (Umbrella Plant), 2½-inch, fine....$2.50
SMILAX..... $1

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Cash with order. **WEST MENTOR, O.**

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Our **SMILAX** must be planted out or potted up right away. All orders received before Aug. 15th will be filled at the nominal price of 75c per 100; $5.00 per 1000. **Cash with order.** Bear in mind these are extra strong plants out of 2-in. pots which makes a great saving in freight compared to 2½ in. pots and are every way as good. Order at once and save money... **South Side Floral Co.,** Springfield, Ill.

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Prices low. Send for list. **VIOLETS.**

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SMILAX, from 2-inch pots $1.50 per 100; $13.00 per 1000.
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When writing mention the American Florist.

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SMILAX Fine plants from pots at 75c per 100; $5.00 per 1000. . . . Sample plants for **10c.**

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Standard varieties. $2.50 per 100. Our selection.
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GREVILLEA ROBUSTA, $2 50 per 100.

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From field for Fall delivery.

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40,000 LOCAN BERRY TIPS.

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White Plume, Golden Self Blanching and Giant Pascal.

Field-grown plants at $1 00 per 1000; $8 50 per 10,000. Cash with order. Samples free.

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FIELD GROWN **CARNATIONS.**

All the best varieties ready in September.

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The finest strain of Pansies in the World.

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SEED! PANSIES SEED!

Roemer's Superb Prize Pansies, improved strain, new crop, ready now. This new mixture is saved from the very finest selected plants from all leading novelties of art colors, without doubt the finest strain in the market to-day. Mixed, per pkt of 3000 seeds. $1.00; ¼ oz, $1 50; ½ oz., $2.75; 1 oz., $5.00. White, yellow, black and blue, in separate colors, $1.00 per pkt. of 3000 seeds.

CASH WITH ORDER.

PETER BROWN, - Lancaster, Pa.
Grower of Extra Fine Pansies.
Plants ready Sept. 15th.

X PANSY X SEED

The finest of all the Giant flowering varieties to be had. No better grown; carefully selected; very large flowers, of perfect form and choice colors. All my florist customers praise this strain very highly; requires no better evidence of superiority. Every florist should be sure to sow of it this season. Per trade pkt. of 3500 seeds, $1.00; half pkt., 50c. A pkt. New Forget-Me-Not, "Jewel," with every order.

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The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at $1.00 each.

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Large Flowering.

Do you want to grow the finest Pansies, if so, buy the **JENNINGS STRAIN.**
Always reliable. None better. Very finest mixed, $1 00 per pkt. of 2500 seeds; $6.00 per ounce. White, yellow, black, blue, red, pink and lavender in separate colors, $1.00 per pkt. The above all grown from very finest stock. Cash with order.

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THE MARKET AND FANCY STRAINS are known by all the florists as the Standard Varieties up-to-date.

FRESH SEED NOW READY in trade packages at ONE DOLLAR each.

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Though the July trade was generally complained of as being slow, several of our florists will now admit that total sales for the month compare most favorably with those of former years. At times it was found rather difficult to obtain certain grades of flowers on short notice, while ordinary stock and outdoor flowers were supplied very irregularly, being over-plenty and cheap for a few days and then again decidedly scarce and high priced. Some growers were unable to furnish a daily supply for which they had contracted; others were more fortunate and, though the quality was not up to the average, they demanded, and obtained most of the time, a good price for their goods. The recent copious rains have helped things along and a marked improvement in quality of flowers has been noticed for a few days past. Asters are now more plenty and sweet peas are longer in stem with fair sized flowers. Good gladioli are offered quite freely and tuberoses have not that yellowish faded appearance of a week ago.

Last week our florists were out in force to pay a long contemplated visit to Geo. Arnold's place, where sweet peas, asters, etc., are grown by the acre. Violets and hardy primroses are in prime condition in spite of the unfavorable weather; weekly stirring of the soil is of great help to the young plants in these days, Mr. Arnold says. The visitors, about three dozen in number, had a most enjoyable time and were royally entertained until late in the evening by the genial proprietor.

W. S. Keller and wife are home again after several months sojourn at Saranac lake in the Adirondack mountains. He tells several big fish stories and, as he has the reputation of being a very modest young man, we are inclined to believe almost half of what he relates. K.

SOMERVILLE, N. J.—John G. Schell has retired from the florist business for the present.

For Sale

500 LOADS OF PALM AND FERN FOOD. Made of clear manure. Like leaf mold. Elegant stuff; 4 years old, $1.00 per yard here; 50c. extra delivered on cars. (See how our Rubbers and Palms like it.)

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THIS INSECTICIDE IS NON-POISONOUS.

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IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE
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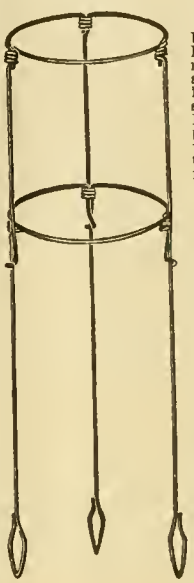
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Very truly yours,
C. W. WARD.

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MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

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MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

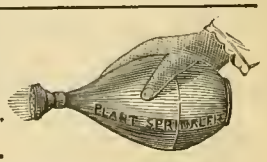
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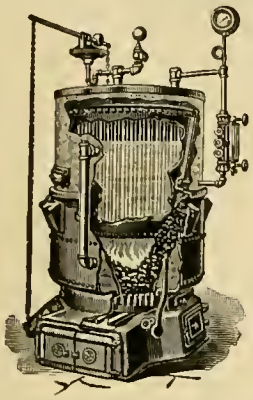
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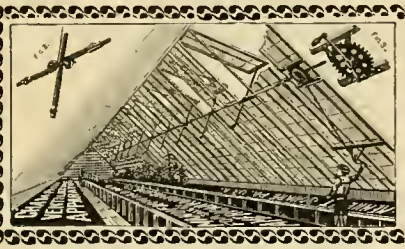
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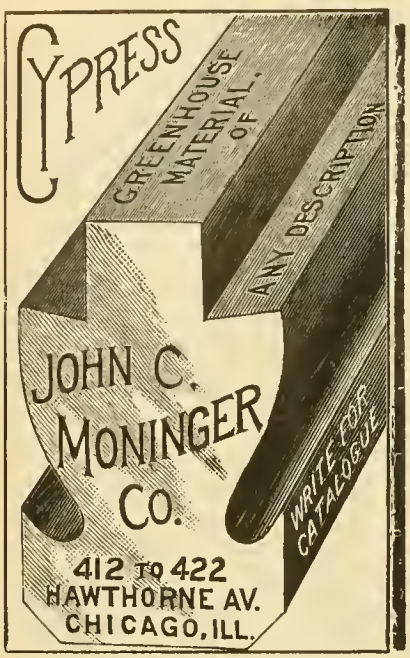
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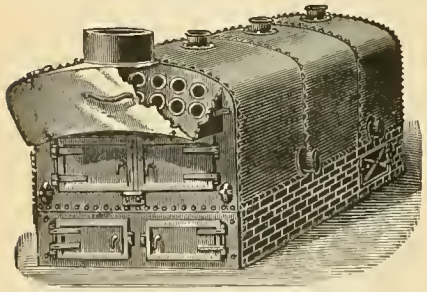


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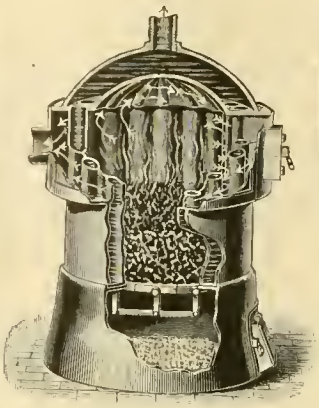
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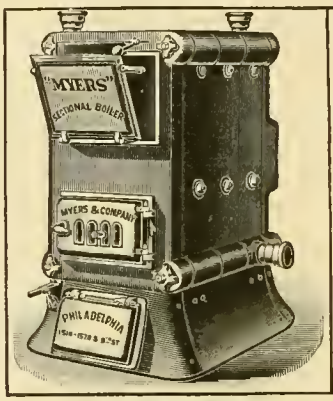
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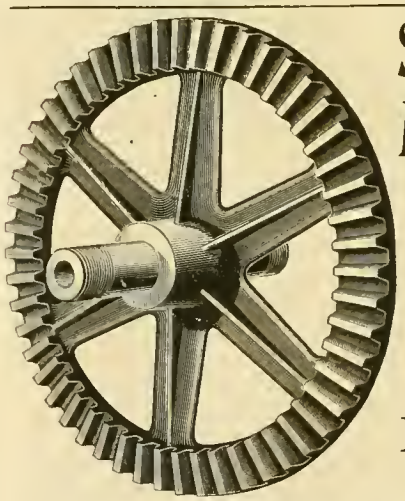
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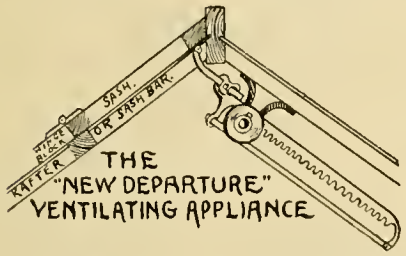
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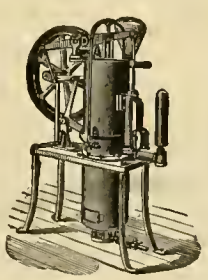
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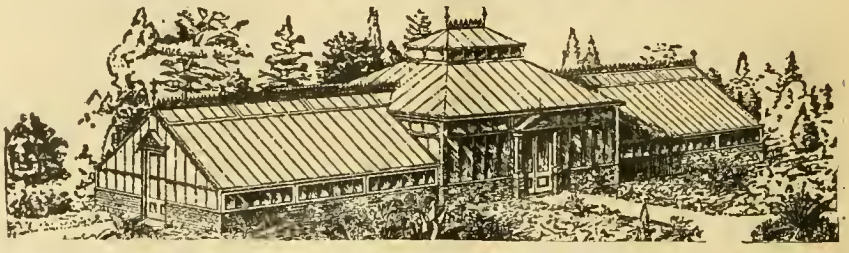
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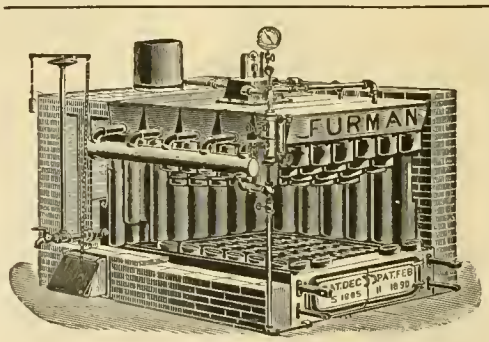


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THE AMERICAN BEAUTY ROSE
AND ITS CULTURE.

How to grow the American Beauty so that it can be depended upon to produce good flowers all through the winter and enough of them to make its cultivation profitable is a problem which not a few growers have found difficult of solution. The men who make a success of this rose in a large way and follow this up regularly, year after year, might be enumerated on one's ten fingers; and they are seemingly as unable to specify the reasons for their success as their neighbors are to determine the cause of their own failure. The costly experience of many growers is that the American Beauty is a very uncertain and erratic rose. Instances might be given where growers have achieved notable success in Beauty culture for the first one or two seasons and, elated with bright anticipations born of the consciousness that they held the key to the whole subject and knew all about it, have trustfully faced another year, only to meet failure, partial or complete, and after repeated trials, fruitful in irregular and illogical results, they have finally been forced to abandon this fickle subject and devote their energies and their benches to something more tractable.

These facts possibly afford a reasonable explanation of the somewhat peculiar circumstance that, although the popularity of the American Beauty all over the country continues and shows no sign of abatement and that there are hundreds of florists who are anxious to grow them if they only could, yet it appears that during the present season many more Beauties have been propagated for the wholesale trade than could be disposed of, even at absurdly low figures. More than one thoughtful grower confesses to have almost reached the conclusion that American Beauty is not a rose that will respond to "rule of thumb" management and that, in the present knowledge of its constitution and requirements, its successful culture for cut flower purposes is largely a matter of chance, for that which was apparently proper and effective treatment one year proves totally inoperative the next. They find themselves wishing they had talked less about their accomplishments and ready to declare their conviction that the man who "goes it blind" is about as well off as the man who fetters himself with set rules and theories and loses half his sleep in reading thermometers at all hours of the night.

The above being a candid presentation of the sentiments of many growers, based upon experience, it is evident that in the present state of knowledge regarding the American Beauty, hard and fast rules of practice in its cultivation are not available. Necessarily the directions that follow are intended to be general rather than specific. We have aimed to give the consensus or average of judgment of a number of growers on vital points, rather than the experience or practice of a single individual in matters of small detail which would be of little service and possibly disastrous for anyone else to try to follow literally. It is taken for granted that the grower, ambitious to make a success with the Beauty, starts with some general experience in rose growing; that he knows the necessity of suitable soil and scrupulous cleanliness about the houses and of sweet pure air and even temperature in dealing with all roses; the fatal effects of sudden changes in temperature, of cold draughts and of condensed moisture on the foliage; that syringing should only be done early in the day and in bright sunny weather and that when the temperature is at its night maximum, a little fire is beneficial even if the ventilators must be kept slightly open. He realizes that with mildew, greenfly or red spider "an ounce of prevention is worth a pound of cure" and that no rose grower with any regard for his reputation will permit any of these preventable pests to get a foothold in his premises and, further, that this applies as forcibly to the stock in the propagating house and in pots as to that which is planted out. If he has not learned all these essentials and lacks a clear conception of the broad fundamental requirements in up-to-date commercial rose growing, let him understand that the American Beauty will take less abuse than any of the popular winter varieties; that it is one of the most difficult subjects an inexperienced grower can tackle and that, from a market standpoint, if it is not very well done, it is very badly done If the beginner is wise, he will not "put all his eggs into one basket" but look for the necessary year's profit in the return from more easily managed varieties and prudently keep his American

Beauty experimenting well within the limits of his spare resources.

Good stock for planting out is the first requirement. Cuttings should be taken from healthy plants and as good roots are essential the young plants should have frequent shifts and not be allowed to get pot bound at any time. Plant firm in good stiff rose soil with plenty of fibre, to which a small quantity of manure and bone meal have been added. Planting should be done early in July, setting the plants fifteen to sixteen inches apart in the rows with thirteen to fourteen inches space between the rows. It is useless to plant Beauties where they will have less than three feet of headroom; front benches, therefore, will be available for Bride, Mermet, or Morgan, either of which will do well in Beauty temperature. Galvanized iron stakes, with five feet of length above ground, and kept rigid at the top by a taut wire, are now in general use. Another taut, horizontal wire, still higher up, will be required later on for the tall shoots.

After planting out, the requirements of American Beauty through the summer are very simple. They should be syringed once a day to keep them in healthy growing condition and a light mulch of manure over the surface after planting is serviceable to keep the soil from drying out. All buds should be pinched out as soon as discerned, while they are still young and soft and not until late in September or October should they be allowed to mature. If allowed to crop heavily early the consequent exhaustion will render the plants more vulnerable to black spot. Between the second and third crop is the danger point for this pest and it is desirable to retard the second crop so that it does not come until after firing has begun. Fumigation will keep greenfly down during the summer but as soon as buds are allowed to remain for cutting the evaporation of tobacco liquid can be substituted. Evaporating should be done once a week and always in the morning. Sulphur and lime applied frequently to the hot pipes will take care of mildew. Sulphur should never be used on pipes that are liable to get extremely hot. A special pipe that does not run very hot should be reserved for this purpose, otherwise the buds are likely to have the ugly blue color which is so frequently seen and which spoils them for market purposes.



AMERICAN BEAUTY ROSES AT PETER REINBERG'S, SUMMERDALE, ILL., FIRST WEEK OF AUGUST.—PLANTED ABOUT MAY 1.—FIRST CUT EARLY IN JULY.

When in good healthy condition American Beauty grows rapidly and liberal feeding is required Beginning in January the plants should have an application of liquid manure regularly every two weeks, all through the season, until they are thrown out. To get good, strong wood, healthy growth and good flowers, keep the temperature down; 58° to 62° should be the maximum night temperature. With a higher temperature the shoots are apt to run up long and slender and when this begins, goodbye to flowers for a time. In different seasons the tendency to produce this so called blind wood varies greatly but its most fruitful cause is a high temperature. A vigorous, healthy shoot, if allowed to grow, should and naturally will, at some time develop a bud, but how to induce it to do this at any particular time or stage is a question that no one is able to answer satisfactorily, although there is no lack of theories. When a cane gets so long that it comes in contact with the glass, the proper course is to bend it to a horizontal position, low down close to the bed, run it along a sufficient distance and then start it off again on another perpendicular race. Sometimes a cane will run twenty or twenty-five feet before producing a flower, but the bending down process, by interrupting the flow of sap, tends to encourage the formation of a bud and also causes the growth of side shoots, which if low down, will give flowers with good stems but if produced up high will throw miserable short-stemmed stock. Not infrequently, however, conditions are just the opposite, the plants are not disposed to make wood and the blossoms are almost stemless. In such cases a little nitrate of soda or other quick fertilizer is recommended, to encourage the plants to start into active growth. This perverse disposition of the American Beauty as to growth is its most exasperating characteristic and at times it becomes a puzzle for the most expert of growers, but it is well to bear in mind that anything that tends to ripen the wood or interrupt the sap is favorable to the production of buds.



SIX-YEAR-OLD AMERICAN BEAUTY ROSES AT HERMAN BAUSKE'S, BOWMANVILLE, ILL., FIRST WEEK OF AUGUST.

Black spot is the most dreaded of all the troubles that make the Beauty grower's life a burden. Its appearance in the Beauty house is generally acknowledged to be a great misfortune, but one New York florist, with a record a few years ago as a successful Beauty grower, was bold enough to contend that black spot might be a blessing in disguise and advanced the theory that through the loss of the lower leaves, air and sunlight

were admitted to the densely shaded stems and soil, thus contributing to the plants' health. This gentleman maintains that one of the worst spot-infected houses he ever had gave him more and better flowers than were yielded by houses entirely free from the spot, but he does not succeed in getting other growers to agree as to his deductions.

Black spot is best prevented by a good circulation of air and abundant light. If the grower could afford the space to keep his plants far enough apart, the problem would be greatly simplified, but with the close planting necessitated by the present conditions of the business, it does not take long to get a dense forest of growth in which the most favorable conditions for the development of black spot are bound to exist, and when it makes its appearance it is a hard matter to prevent its rapid spread. Sudden changes in temperature, overwatering, a damp chill, moisture on the foliage at night, are among the most fruitful causes and impaired root action, while not a direct cause, is no doubt contributory to the black spot getting a foothold. The greatest period of danger is from now until the fires are kindled. Give all the air possible at mid-day. If the thermometer outside goes down to 64°, air should be taken off by 8 p. m., always, however, leaving a crack open to prevent condensation of moisture, for a rose house should never be closed up tight until after firing in the fall and even well up into October and no ventilating device that does this automatically can be considered safe.

With many experienced growers it is a rule to syringe once a week with copper and ammonia; not as a remedy but as a preventive and to keep black spot from spreading if it should make its appearance. One half pound of carbonate of copper dissolved in one gallon of ammonia of 26° strength and one gill of this solution added to a large canful of water is the formula used. On the young plants, also, either this solution or the Bordeaux mixture made with lime should be used regularly. Black spot simply cannot live where the Bordeaux mixture is, but it disfigures the foliage and consequently must not be used on roses when the plants get any size. It is hardly necessary to say that all affected leaves should be picked off and burned as soon as they appear.

Deformed buds, often on the most vigorous and healthy plants, are among the most discouraging features of the Beauty house. After having brought the plants to strong growth and promising buds only to see every bud come discolored, distorted and valueless is enough to try the patience of any one. Equal to black spot as a nuisance, and equally difficult to master, are the little thrips which cause this trouble. The insect, so minute as to be scarcely visible to the naked eye, gets in between the petals while the bud is yet very small, and it is next to impossible to get between them to dislodge or kill him. Fumigation sufficient to destroy him would also destroy the buds. Hot, dry weather is apt to bring him, and from July to October is especially a critical period. Houses should be thoroughly cleaned before the roses are planted out and frequent fumigation of the plants while they are young will also help to prevent the pest getting a lodgment. After fumigating, it is a good plan to syringe the plants and floors with whale oil soap to prevent the insects getting back again. Thrips are not confined to American Beauty, but do great damage on other varieties. Kaiserin Augusta is often attacked and much injury is sometimes done to forced hybrid perpetuals. Some recommend vaporizing with tobacco liquid. Persian insect powder was used in fumigation last summer by one of the largest New York growers who had suffered from thrips in past seasons and was apparently effectual, as he had no trouble with them afterward.

About cutting the blooms. When one grows roses for his own immediate use he can cut the flowers in condition as needed, but in establishments where the buds are grown for the wholesale market, uniformity is an important consideration, to attain which requires great skill, and the best rose is easily spoiled by bad judgment in cutting. In fact large growers assert that it is almost impossible to get workmen who can be depended upon to cut American Beauty right. Cutting must be done three or four times a day. In summer they must be carefully watched and cut very close as they fly open with wonderful suddenness. In winter the buds are cut just as the tips of the petals begin to separate and leave the pointed form. In large establishments the first cutting is made about 5:30 a. m.; the second about 10 a. m., and a third and fourth at noon and evening, the first two giving the largest yield. As soon as cut the buds are sorted as to length of stems and placed in jars of water of corresponding depth and set in a refrigerator or cool cellar. No water is allowed to touch the buds and crowding must be carefully avoided. In the morning they are separated into grades and packed in shallow boxes for market, while those that are too close are held over for twenty-four hours more. This grading, like cutting, is far from a simple operation. To do it well requires long practice, and to attain sufficient proficiency to suit the boss, the commission man and the buyer is an accomplishment that would hardly be attained in a lifetime as long as that of Methuselah. The retailer demands his buds close cut. In this he has two ends in view—the buds will last longer and if they appear small he sees an argument for a lower price; whereas the seller likes to have his blooms pretty well developed for reasons that are equally obvious.

In closing, a brief resume of some experiences of the past season will not be out of place. Last January, February and March it was the experience of many growers that Beauty, although growing well and



AMERICAN BEAUTY ROSES.

seemingly in the best of condition, yet produced but few flowers. Canes climbed to an unprecedented length and kept on climbing, and the bud, which in all well regulated American Beauties should have appeared on the end of the shoot, came not. The cause of this peculiarity was not apparent; there may have been something in the weather to cause it. One grower's product for the winter averaged two buds less per plant than in the previous season; the quality of the flower was, however, fully up to the average. A certain grower in commenting on these facts remarked very pertinently that a man cannot afford to grow six or eight yards of wood for the sake of one rose with a three-foot stem that may at some time in the indefinite future appear.

In a number of places the young stock rooted last winter showed much perversity after being put in pots and refused to grow. It simply stood still in the pots and again stood still for a month after planting out, then, suddenly, it went with a jump and has been growing vigorously ever since.

Some few growers in various sections have been very successful in holding over the old plants from year to year, but this is one of the many features of American Beauty culture decidedly in the experimental stage and not yet to be attempted on an extensive scale.

A PHILADELPHIA GROWER'S PRACTICE.

It is an open question to-day, I presume, as to which is the better style of house in which to grow American Beauty roses for winter blooming, some growers believing in one style, while others, equally as sanguine, believe in something different. There is more independence in respect to the style of house nowadays than was the case a few years ago. The plan mostly in operation in and near Philadelphia is that known as the hip roof, though there are some of the equal span style of greenhouses hereabout where excellent results have been obtained. I cannot recall an instance where the short span to the south house is in operation in or near this city for the purpose indicated. Bassett & Washburn, Hinsdale (near Chicago), had quite a number of that pattern erected in 1893 for the purpose under consideration, and they no doubt will gladly give the results of their experience along these lines, in comparison with those of equal span and the hip roof styles.

The equal span seems to offer better facilities for this tall growing rose than do houses wherein the head room is more circumscribed. There has been a difference of opinion expressed as to whether the long stemmed or the mediums and shorts pay the grower the best. Personally I am inclined to the belief that the long stemmed stock is the most profitable, that it would be far better for all concerned if stems of this favorite rose were not cut shorter than eighteen inches in length, and that it would be better still if two feet was the minimum length. This procedure would shorten the supply of inferior stock and give a better tone to that which is offered to the flower buyers in general. But this plan, of course, applies only to the growers who sell exclusively at wholesale, or who dispose of their stock through the commission merchant.

The soil we use is a clay loam, which suits American Beauty admirably. Our preparation of the soil used is, we think, about as economical as is possible. Sometimes we plow a part of the soil needed in the fall, before it becomes too wet; this is used for early planting, which is sometimes the following April and May. This year our first house was not planted until June 4. After plowing, the soil is harrowed thoroughly, going over it several times, after which about five hundred pounds pure ground bone and two to three barrels of wood ashes are spread as evenly as possible upon seven or eight furrows across the field, which is about three hundred feet wide; this is again thoroughly harrowed, in order to mix the materials as perfectly as possible. In three weeks or a month, if the soil is sufficiently dry, it is again plowed and left in rough ridges all winter, to be plowed down and worked again as soon as fit in the spring.



FLAT BOUQUET OF AMERICAN BEAUTY ROSES.

We have no set time in the spring when the plowing for our main supply of compost is done; we have used with good results soil that has only been plowed one month. The soil which is prepared by plowing in the spring for planting seems better for the purpose than that which has been plowed the preceding fall, though we cannot prove that it is. It contains more fibre and appears to have more "life," although sufficiently well rotted to use for all practical purposes. I once made a grand mistake in using soil for Meteors in which bone and wood ashes had been mixed only the day before. A chemical action takes place, I am told, when these two substances come in contact, which renders it unsafe for plants, especially if an overdose is given, until the chemical process has run its course, which appears to be in from three weeks to a month. The two causes combined resulted in the entire house having to be replanted, at least I have always blamed the combination of bone and wood ashes being used too soon after their application to the soil in which the planting was done, and possibly an overdose was given. It is difficult to determine just how much of the combination can be used with safety without comparative experiment, for soils differ greatly in the plant foods they contain.

To return to the preparation of the soil, sometimes we use stable manure and at other times we do not. Some of the very best American Beauties that have ever been seen here were grown in soil that did not contain a particle of stable manure. The plant foods having been worked into the soil, we allow it to remain for a time, when it is harrowed at intervals so as to keep it mellow and friable. After every rain the harrow is put to work as soon as it is sufficiently dry, so that there is no possibility of it becoming crusty. If it is carefully watched and full advantage taken of the elements the soil should be kept in condition to be used not longer than twenty-four hours after a heavy rain. We have thrown the outer furrows into the middle, and in that way piled the compost somewhat, but there does not appear to have been any advantage in this course.



FIG. I.—PICKING FLOWERS FOR PERFUMERY.

The time of planting is determined somewhat by the way the old plants are behaving and the condition of the young stock; if the old plants are comparatively free from red spider and black spot, and the number of flowers cut is profitable, we defer the planting as long as possible consistent with the probable well doing of the future crop. My experience leads me to the belief that good American Beauty flowers sell to better advantage in June from old plants than do those of the new crop cut from young plants in August and September. Every person is guided altogether by his own particular business when he commences to cut. It takes a lot of moral courage for a florist who retails his own crop to sacrifice buds by pinching them off and throwing them away in summer, especially when he can realize $2 50 or $3 per dozen for them, and the grower who sells his crop exclusively at wholesale blames him not for such action.

Flowers may be and have been cut from stock that has been planted two months, or to be more explicit, healthy plants in 4-inch pots planted the first week in June may yield a moderate cutting the first week in August. American Beauties are generally too plentiful in Philadelphia during the chrysanthemum season and for some weeks prior to that time. Plants may be benched as late as October 15 and give excellent results. Last year the writer sold to a private gardener some that were planted on date as above indicated from 4-inch pots, and so good were the results that the purchaser never tires talking about how well they succeeded. In my own experience we have planted as late as August 15 with satisfactory results. For a number of years the house which gave us the best results was planted the third day of July. They require abundance of water at the root at all times when growing freely.

The most important work in autumn consists of being careful that the watering and syringing is done in such a way as to keep down red spider and yet to avoid black spot. These are, according to my experience and observation, the two greatest enemies of the American Beauty. Water, the bane of red spider, is a promoter of black spot; that is to say, if it is applied in unlimited quantities and at unseasonable times. In the dark days of winter we have to be very careful in syringing and watering, or black spot will almost surely appear, yet if we neglect watering and syringing the plants red spider will also just as assuredly flourish. Our night temperature ranges from 58° to 60°. We prefer the latter mark, thinking we get a better crop, more flowers, and the quality is practically as good in our soil as those grown in a lower temperature.

How best to dispose of the products of a house or houses devoted to American Beauties is yet an unsolved problem. In Philadelphia most of the flowers are sold direct to the stores, most of the growers having their own salesmen. Whether this is the most profitable method cannot be answered. For the past year or so, speaking for myself, the product has been distributed through the commission house of S. S. Pennock, and so far it is more satisfactory than the plan formerly in use, viz., selling to the dealers through my own salesmen

In the propagation of American Beauty plants, the very best wood should in all cases be selected, whether the young plants are for sale or for our own use. They are not quite so easy to root as Meteors and the Mermet family, but we have on many occasions rooted ninety-five per cent, and we always find that, when we have what we call a good strike, the young plants resulting therefrom always render a good account of themselves. Why this is so I cannot explain unless it be that in order to succeed in having a good percentage of the cuttings take root all the natural requirements have been properly attended to. Judicious shading from direct sunshine and frequent sprinklings on bright days must be carefully followed, especially during the first week or so after the cuttings are put into the propagating sand. This rule also applies to the young plants after their first potting

Never allow the young plants to become stunted. Pot on before they become root bound or checked in any way, for when an American Beauty is retarded it requires some considerable time to outgrow that mismanagement It takes but a few days to ruin a nice batch of Beauties in 3-inch or smaller sized pots. If everything is not just ready to plant them into their winter quarters, it is better to give them a shift into the next sized pot, and in that way hold them in good condition until everything is prepared for planting.

The cutting of the flowers with generous stems is about all the pruning a thrifty plant in full growth can stand, though it is an advantage to remove all the weak straggling growth, taking care to make a clean cut clear from the base of the plant, leaving no short, scraggy pieces. EDWIN LONSDALE.

The Perfume Industry in the South of France.

In several of my previous letters I have given an idea of the importance of the floriculture of southern France for the production of cut flowers, but I have not referred to the enormous quantities of flowers that are required to supply the demand of the perfume factories. When we consider that the annual perfumery trade of France amounts to twenty millions of dollars, the importance of the flowers, its chief source, becomes evident. Our leading scientific paper, *La Nature*, in one of its recent numbers has given a very interesting article on the manufacture of perfumes, and with the permission of the publisher, I send the accompanying illustrations and hints about the leading operations in the making of the pomades an i odoriferous waters.

According to *La Nature* the extraction of the perfume is a most complicated art. The delicacy of the flowers, the feeble odor they emit, the enormous quantities to be treated and the rapidity with which the work has to be done easily explains the difficulties of the work. Other factors, too, come up for consideration. The fragrance of a flower varies according to the hour of the day—the hot air and the light may enhance momentarily the production of the scent or destroy it altogether if their duration is extended. Picked under the striking sun the flowers give off less odor than when cut in the early morning; their smell is sweeter on elevated, cool and wet soils than on dry, low lands exposed to the heat. All these

minute details, with complicated and delicate operations, compel the perfume manufacturer to serve a pretty long apprenticeship.

Our Department of the Alpes Maritimes (French Riviera) is a marvelous garden which holds up the supremacy of French perfumery; it is without contest the granary of all foreign perfumers. The beautiful city of Grasse, unique in the world as a floral center, has for several centuries sheltered this considerable, most interesting and picturesque agricultural industry. As the morning dawns and before the rays of the sun touch the flowers, sometimes even at midnight when a thunderstorm threatens, the flower pickers, women and children called together by a bugle horn, march to the fields to attend to their work, either roosted on the trees or bent down on the plants or bushes as shown in Fig. 1. Most of the pickers are Italians, the available national help not being sufficient at harvest time.

The picked flowers are put in bags, carried on donkeys to the factories, where young girls receive them, sort them (Fig. 2) and spread them on the floor of a cool workshop, from which they are afterwards taken by the manipulator. The paper then explains how some flowers give off their scent by the rapid and rough action of distillation, while others require a more delicate, slow and patient process in which the petals of the flowers are submitted to the physiological separating action of a dissolvent. The latter method compels us to face another difficulty which is found in separating the essential oil from the resins, tannins, impurities, etc., associated with it. Any dissolvent of the essence will in general carry off part of these matters; if, for instance, it is soluble in the aqueous liquids with which the tissues of the flowers are impregnated, it will also absorb the bad odors. On the other hand, if it is too active, it will kill the flower and prevent the development of the scent. A perfect separator ought therefore to be neutral, odorless, and of a character to attract the essence alone. Such an ideal separator is still to be found and in default of it the manufacturer must content himself with the dissolvent which up to the present date has given the best results, viz., grease, or a mixture of beef fat and lard which has been melted and prepared with the greatest care according to traditions handed down since the time of Dioscorides. The grease is sometimes replaced by perfectly pure olive or carefully refined oils.

The two leading methods in use with the perfume manufacturers are therefore the distillation and the dissolution; the latter when carried on by the hot method is called "maceration," and when conducted in a very thorough manner is known under the name of "enfleurage." Two flowers only, the orange and the rose may be treated by distillation. The process consists of throwing 100 quarts of water and 112 pounds of flowers into the still and heating it. The boiling water disorganizes the cells which imprison the essence and sets it free; the vapors are condensed in a refrigerator; the water and essence are collected in a Florentine receptacle where the difference of density separates them. The distillers of Grasse (Fig. 3) are admirably assisted in their work by Dame Nature, not only with respect to climate, but also as regards water supply, perfect distilling rooms, such as ancient caves, old crypts of monasteries, etc.

The process of "maceration" is applied to the violet, acacia, jonquil and sometimes to the rose and orange. In this case the grease is melted, by women, in deep tinned pans on water bath stoves; the flowers are thrown into them and by means of a spatula kept immersed at a temperature of about 150° Fahr. for half an hour, after which they are withdrawn, drained, and the amalgamated residuum, scalded by the boiling water, is put under a hydraulic press to carry off the last traces of fat or grease. But one maceration is not sufficient to perfume the grease, which after a single operation is hardly odorous. The workers must continue the process with fresh flowers until the grease has been saturated to a required strength. About ten pounds of flowers will perfume two pounds of grease and for some flowers the operation must be twenty-five times repeated.

The "enfleurage" (Fig. 4) is used for the jasmine and the tuberose. It is practiced in wooden frames about three feet long, twenty-five inches broad and from three to four inches deep, closed on the bottom by a sheet of glass. On the glass is spread a layer of grease with which the flowers are brought into direct contact. The frames are piled up to the number of forty, and the flowers being thus imprisoned between two frames, as in a closed, cool receptacle, develop their aroma under the best possible conditions. The next day these flowers are replaced by fresh ones and the operation continues until the perfume has acquired the necessary intensity. To manufacture the perfumed oils (huiles enfleurées), the sheets of glass on the bottom of the frames are replaced by a net work on which rest pieces of wool saturated with oil. The perfumed oil is collected through the pressure of all the pieces of wool. This process is very slow and for the jasmine lasts three months; it is besides very costly on account of the working material it requires. The smallest factory owns at least 4,000 frames and large manufacturers have 40,000 of them. A frame cannot hold more than one pound of grease and a piece of wool more than two pounds of oil.

It now remains to transform into extracts the pomades, etc, obtained by "maceration" or "enfleurage," and to accomplish this the various products are brought into contact with alcohol in receptacles which are violently agitated in alternating movements. The mixture



FIG. II.—SORTING FLOWERS IN A PERFUME FACTORY.

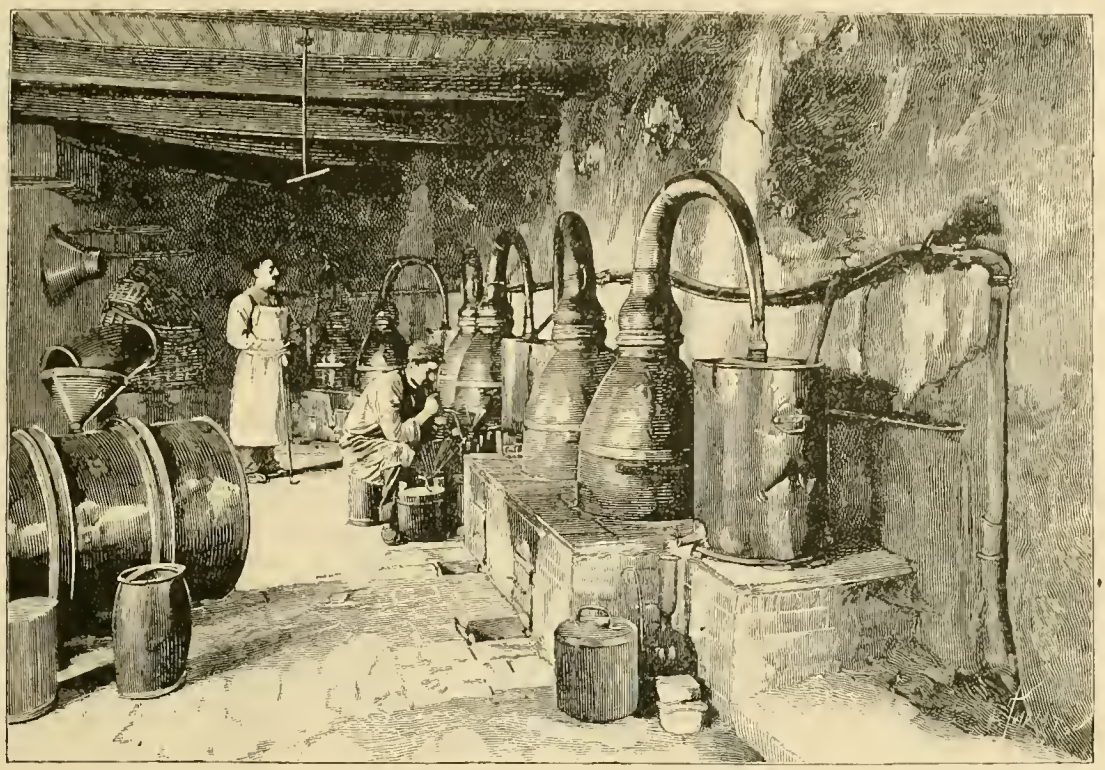


FIG. III.—THE PERFUME MAKER'S DISTILLERY.

is stirred until the alcohol has taken up all the perfume, and separation is then effected by means of decantation. The foregoing are the leading points in the manufacture of perfumes but to master all the difficulties requires constant care and attention and a thousand precautions and knacks which can only be acquired by actual experience.

In the Department of the Alpes Maritimes (Grasse, Cannes and the adjoining villages) the following quantities of flowers are manipulated:

2000 long tons of roses.
2500 long tons of orange.
200 long tons of jasmine.
150 long tons of acacia.
150 long tons of tuberoses.
200 long tons of violets.

In addition to these must be mentioned mignonette and jonquils, of which a good many tons (from twenty-five to thirty-five) are used up every year. The average price paid for one kilog. (two pounds three ounces) of flowers is as follows:

For the violet and acacia, 80 cents.
For the tuberose, 60 cents.
For the jasmine, 50 cents.
For the rose, 13 cents.
For the orange, 14 cents.

One violet plant will yield two-thirds of an ounce and one orange tree twenty-two pounds of flowers. A woman can pick in a morning, that is in four hours, about forty-four pounds of roses, seven pounds of jasmine, thirteen pounds of tuberoses, and in a whole day twenty-two pounds of violet or orange flowers. To produce one kilog. of essence (essential oil), one long ton, or about 1,200,000 orange flowers, are necessary. Sixteen tons of roses, or 5,000,000 flowers, will only provide one kilog. of essence. Five hundred long tons of pomades and perfumed oils and 4,000,000 litres (or quarts) of odoriferous waters valued, as first matters, at over $3,000,000 are annually manufactured in the south of France.

Notwithstanding the enormous quantities of perfume made from the flowers, modern chemical science produces a good many cheap artificial odors, which, as has been proven lately by a member of the Academy of Medicine, are not always harmless, on account of the noxious salts, nitrate of silver, bichloride of mercury, and acetate of lead, etc., entering into them. The honorable perfumer will therefore continue to resort to the inocuous floral extracts, which alone will enable him to prepare or compound, with the small number of flower odors heretofore alluded to, the many different perfumes demanded by his critical trade.

PARISIAN.

Noonday Reflections.

The relations between the florist and the general public are closer than that existing in any other branch of horticulture. This is natural. The florist is near to them. He is not above the level of any; he is a working man. He is in every town. Whether it be for a bouquet, a funeral or a wedding piece, the decoration of halls and dwelling houses for all sorts of occasions, or the laying out and planting of grounds, he must be consulted. The nurseryman proper never gets as near to the people, so that large quantities of his stock, shade and fruit trees, shrubs and herbaceous plants, are every season disposed of through the agency of the florist and the seedsman.

The communal attachment of gardeners and florists has always been very close. This fraternal feeling, for the most part, comes from their antecedents and previous training, and it is not surprising when one remembers that nearly all the first florists of the land were once private gardeners. They are always on visiting terms, and ever ready to exchange notes beneficial to each other. Considering also that there is still a wide field for enterprise, and that the successful florist needs an extensive acquaintance with cultivated plants and flowers of all kinds, even vegetables—for sometimes these become a profitable source of income—I would suggest that all young men who intend to become florists take private gardening as a part of their educational course. Florists' sons who go into business with their parents are especially at a disadvantage unless they take a course of study away from home. Further emphasis for this suggestion may be found among young men of any floral establishment. While the proprietor may have a latent fund of knowledge gained in other fields of horticulture, capable of development whenever the necessity calls for it, it is not so with his working force. They are held to a routine, which restricts their ability to growing but a few plants well. I only speak of this in a general way. Happily there are many exceptions. Specialists in floriculture seldom succeed by commencing as such.

It seems to me a florist on commencing business, even in a small way, should locate himself so as to get in touch with the community as speedily as possible. He should be competent and ever ready to discuss and advise in an intelligent manner on all subjects relating to his business, remembering that the whole field of horticulture lies within his domain; that it is not limited to the culture of roses, carnations, violets and chrysanthemums under glass, or to bedding stock, restricted mostly to geraniums, cannas and coleus. The seedsmen of the country advertise a "select" list of nursery stock. Leave seeds to the seedsmen, but all bulbs, roots, herbaceous plants, trees and shrubs should be supplied by the local florists, and a small but well ordered reserve ground should be full of such stock for inspection.

Florists who are accustomed to whole-

sale methods of cultivation do not take kindly to the pot plant trade. If the truth must be told, it takes more skill and perseverance to grow pot plants well, than cut flowers in benches. Here is where the private gardener's instincts come in. If there be a dollar to be made on pot plants be will not let the opportunity go by. Above all, one part of the business helps another. Pot plants will help to make customers for cut flowers, and vice versa.

The florist who builds an annex to his greenhouses where foliage plants and those in bloom can be effectively displayed and cut flowers kept handy, is worthy of the highest commendation. Galvin's Back Bay conservatories in Boston afford a fine example of this class of structure, though far too elaborate for the florist in general. There is a good practical suggestion here and it should be acted upon. The ready way in which the florists of the country work together for the common good, is a most gratifying feature of the business. "Union is strength" should not be their sole motto. While the spirit of investigation and discovery continues we should be ever ready to spread abroad whatever knowledge we possess for the benefit of all. The man who gives freely of his knowledge will never lose anything by it.

MONARDA.

Hardy Herbaceous Plants.

It seems strange that these very useful plants are not more generally grown by florists, especially such as afford good flowers for cutting. Perhaps one reason, if not the chief, is the general impression that spring is the only proper time for planting all herbaceous perennials. This is not the case, as a large proportion do much better if planted during the last of August and the whole of September; others if planted in October and first half of November. The spring here is so short as a rule, and the early flowering species and varieties start so quickly into growth, that quite often a season is lost by putting off planting till spring.

We have had great success in planting spring and early summer flowering plants during August and September; late summer and fall flowering plants in October and first half of November. There have been so many notes on herbaceous plants in these columns in which time of flowering and descriptions have been given that it only seems necessary to give lists of some of the plants we have successfully planted at the seasons named.

August and September—Achillea, aconitum, alyssum, anthemis, anthericum, aquilegia, arabis, campanula, centaurea, cerastium, Clematis erecta, coreopsis, delphinium, dianthus, dicentra, echinops, eryngium, gaillardia, geranium, gypsophila, Helenium Boulanderii, hemerocallis, iberis, iris, supinus, lychnis, Mertensia Virginica, monarda, myosotis, œnothera, papaver, pentstemon, phlox (spring flowering), primula, pyrethrum, ranunculus, sedum, Spiræa filipendula fl. pl. thymus, trollius, veronica and viola.

October and November—Aconitum autumnale, Asclepias tuberosa, aster, astilbe, boltenia, campunula (late flowering), eulalia, funkia, Helenium autumnale, helianthus, heliopsis, hibiscus, liatris, pæonies, Phlox decussata varieties, Phlox suffruticosa varieties, rudbeckia, spiræa, and many of those that will plant well in August and September,

Following are descriptions of some of our newest Phlox decussata varieties in bloom during the week ending July 30:

Coquelicot—Certainly one of the brightest, if not the brightest, phlox yet introduced; it was awarded a first class certificate of merit by the Royal Horticultural Society of England. Flowers of good size, bright salmon tinted with orange, several shades brighter than General Chanzy and Lothair.

Esperence—Large flower, pink, light center, solid rounded truss. Hardly bright enough.

Fernand Cortez—Catalogued as light bronze, very good, but one has to look very closely to see the bronze; large finely shaped flowers, dark pink with bronze tint toward the center. Trusses rounded and very full.

Lumineux—Large well formed flowers, clear bright pink, lighter towards center; solid rounded clusters. Somewhat like Le Soleil, but much brighter.

Mars-le-Tours — Beautifully formed flowers, bright carmine shaded to white, solid pyramidal truss. The most distinct of the set.

Parachute—Dwarf; crimson with light center, panicles much branched. Distinct in having the petals reflexed in the young flowers.

Rodin—Dwarf; well formed flowers, lavender and white; trusses much branched. Distinct but not very bright.

Evenement—Large well formed flowers, clear pink; good solid clusters.

Fantasie—White, marbled with purplish violet; rather dull and not distinct enough from many others.

Lord Rayleigh—Large well formed flowers, dark violet shading to blue. The nearest to blue yet introduced. Awarded first class certificate of merit by the Royal Horticultural Society of England.

Mme. Miolan-Carvalho—Very large flowers of good substance, creamy white, slightly feathered with pink.

The following varieties are some we imported from Scotland on account of their extra large panicles:

Bicolor—Flowers medium size, well formed, light salmon pink with large well defined bright crimson eye; trusses pyramidal and branched.

J. K. Lordy—Flowers small, cherry red, with dark eye, well branched panicles.

Mrs. Keynes—Flowers small, white, slightly feathered with pink; large, well branched pyramidal heads.

Massachusetts. R. N.

The Odontoglossum.

The species of this extensive genus of evergreen orchids, over 100 of which have been successfully cultivated, require cool treatment in a temperature of 40° to 65°. They enjoy liberal quantities of fresh air, a light position without the direct influence of the sun's rays, consequently a northern aspect, large glass, and a constantly plentiful supply of atmospheric moisture. They are impatient of strong, direct draughts, either in the heat of summer or the cold, dark days of winter.

In potting I have found the best material to consist of the finer parts of fern root mixed with the short moss found in the bare spots of dry woods. I prefer the latter to the common sphagnum from the swamps. The odontoglossums do not like a saturated condition in their potting material and they must have at

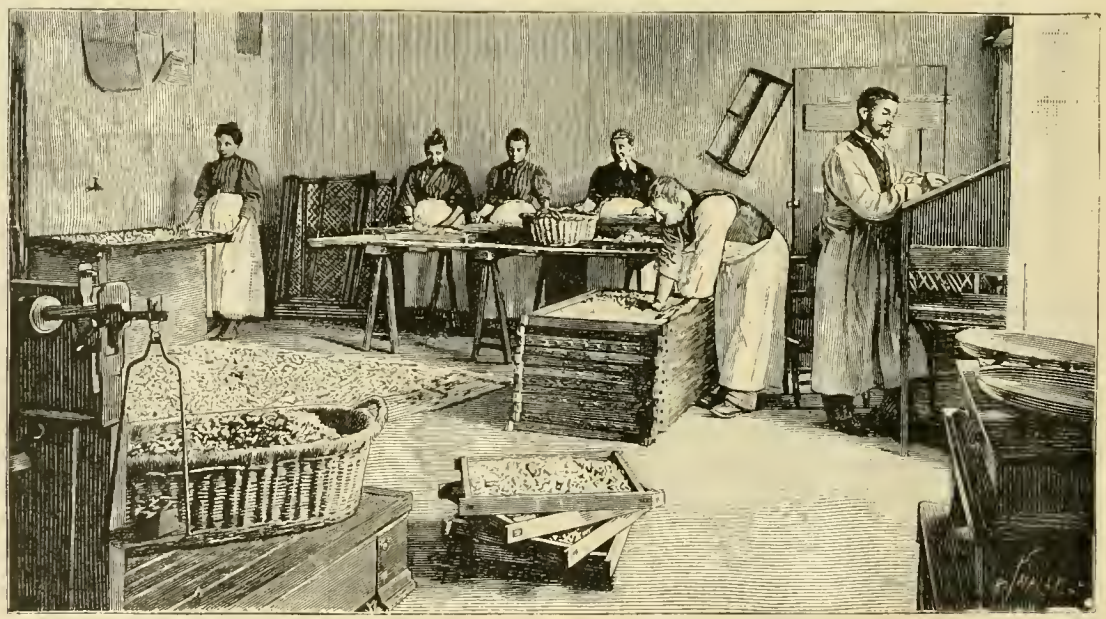


FIG. IV.—COLLECTING FLORAL PERFUMES BY THE "ENFLEURAGE" METHOD.

least two-thirds clean potsherds for drainage and only a moderate sized pot, so that in the summer season they can be slightly sprayed two or three times daily without getting them into a soggy condition. Pot firmly, and should the moss grow too tall a clipping with the shears will keep it in proper condition.

After they have flowered, which generally happens when the bulb is nearly completed, a careful withholding of water, except enough to keep bulbs and foliage plump, will be in order. Some will, after a little period of resting, soon show signs of new growths starting from the base of the last made bulb, and this must be cautiously regarded as to position and time and amount of watering. The young growth on first starting takes its nutriment from the parent bulb and if kept too try the bulb will shrivel. This must be carefully avoided, but at the same time on a very hot day there is danger in watering with hose or syringe, as often the young growth is very likely to damp off similar to cuttings of tender plants in the cutting bench.

I would therefore advise great care in this respect, watering with a pot the plants that require it and avoid applying it to the young growths until they have a plentiful supply of roots at their base. This applies of course to the very close, hot days of summer which are often prevalent in this climate. In a large collection it will be found that growths commence at different periods, so it will be necessary for the cultivator to group them according to conditions as they present themselves. It will be found impossible to set a time or make a rule as to treatment which will suit all the plants without little variations. The foregoing treatment I have found best for O. crispum and its many varieties, O. Pescatorei and other species from the South American Andes.

The Mexican, Peruvian and species from Guatemala, etc., will reqnire a warmer house in their resting period and a much drier condition when at rest. O. grande, O. nebulosum, O. Insleayi, etc., must not have any water or a very moist condition during their resting period, say from December to May, or the leaves and often the bulbs will become spotted. A light, airy place, somewhat shady, and an occasional watering is about right for them at this time, with a temperature of 50° to 55°. O. Rœzlii and O vexillarium and its varieties enjoy a temperature of 10° to 15° higher than the mountain varieties, and during the growing season an ample supply of water. Plenty of fresh air at all times is very essential to their welfare; light is also necessary, but the plants must be at all times shaded from the hot sun.

The treatment of O. citrosmum consists of a long rest, with the temperature at about 45° to 50°, after the bulbs have finished up, which should be not later than October 1, giving only an occasional watering. The flowers come early in the summer from the young growths when they are from one to one and one-half inches in length. When the flower spikes show, plenty of water is the rule till the bulb growth is finished. A little weak liquid manure will help the plants during the growing season, but care should be taken not to overpot them. This is a very satisfactory and profitable species and should be in every collection. I am now sitting in sight of about forty spikes of this beautiful flower and a very fine specimen of Cattleya gigas, some plants of Dendrobium calceolus, a few ærides, etc., in bloom, and they present a very charming picture at this season of the year, when almost all other flowers are off crop.

I have avoided naming a long list of varieties of odontoglossums as the treatment would be about the same in all varieties of each of the three different sections. Much has been said about liquid manure in and about the orchid houses, but with plenty of fresh air and suitable water I have never found much good in its use and often much damage. Cypripedium insigne, cymbidums, calanthes and such like plants sometimes do well with it, but in the case of any kind of odontoglossums I consider it the safer plan to be very cautious in the use of stimulants.

Utica, N. Y. WM. MATHEWS.

The Evans Challenge Trophy.

One of the most attractive amusement features of the annual convention of the S. A. F. is the bowling tournament. It was at Buffalo, in 1889, that this game was first put upon the programme and so strong a hold did it take upon those present that it has become a fixture, looked forward to from one year to the next.

In the first contest New York won in two games with a score of 1497, an average of 125 for each player. Boston was the scene of the second series of games and the sport was keen and spirited. New Jersey, Buffalo, Philadelphia and Chicago dropped behind until New York and Boston were left to fight it out, the former again winning by a score of 2811, an average of 156.

At the conclusion of the third inter-team contest at Toronto in 1891, New York and Philadelphia had defeated Boston, Buffalo, Chicago and Toronto and were tied, each having scored 1848 points. Five frames were rolled to decide the winner and Philadelphia made 480 to New York's 432. New York lost this contest upon a foul by Burns which permitted Philadelphia to tie.

At Washington in 1892 Mr. Spaulding, of South Orange, N. J., offered a cup as a trophy to be bowled for each year until some team won it for a second time when it was to become that club's property. Philadelphia was the first custodian, winning with 1683, or 140 per man, from New York, Washington, Buffalo, Summit, N. J., Boston, Baltimore, Chicago and Pittsburg.

In the World's Fair year the convention was held at St. Louis and New York won the cup from Philadelphia, Chicago, New York and St. Louis with a score of 3043 in three games, or an average of 169, the best record ever made.

At Atlantic City ten teams participated in the contest, Buffalo winning with 2539, or 141 pins per man, from New York, Philadelphia, Flatbush, Boston, St. Louis, Summit, Pittsburg, Washing-



THE EVANS CHALLENGE TROPHY.

ton and Chicago. The next match, at Pittsburg, resulted in a walk away for Buffalo, 2755 points, or an average of 153, and decided the ownership of the trophy.

It was at the Cleveland meeting in the following year, 1896, that J. A. Evans, of Richmond, Ind., offered a new challenge trophy, a silver cup of happy design. Buffalo again triumphed with a score of 2565, average 142, but because of some technicality, did not claim the honor and there was no decision. Pittsburg, Philadelphia, Chicago and Flatbush also bowled.

Last year, at Providence, eight clubs, Philadelphia, Boston, Pittsburg, Flatbush, New York, Fall River, Providence and Buffalo, participated, the first named winning with a score of 2501, or 139 per man.

Indications point to a sanguinary contest at Omaha next week.

Unhealthy Roses.

ED. AM. FLORIST:—Under separate cover I send rose plants and would like to know through the AMERICAN FLORIST if they bear any traces of the eel worm. They were planted in benches July 15, 1897, and some of the soil in which they were grown accompanies the plants. I use three parts of loam to one part of well-rotted cow manure, adding a small amount of pure bone meal. Is the soil good for roses? Last season my roses were nearly a failure. I maintained a night temperature of 55°, ventilated when weather permitted, kept the plants a little on the dry side and painted the pipes with lime and sulphur to prevent mildew. Twice during winter the temperature fell to 48°. Would this cause the mischief?

U. P.

On first examination of the plants I did not detect any club root, but on washing the roots out very carefully I found some, though not enough apparently on the roots sent to cause the plants to die off as described, and judging from the condition of the plants received I should think there must be some other trouble in conjunction with the eel worm to cause the destruction of the plants The sample of soil enclosed has all the appearance of being suitable for rose growing, and when the manure is added to it, certainly should be in good condition to produce excellent roses; if the bone meal had any acid in it I can readily see where the trouble comes from. I would advise "U. P." to use the soil and manure only for a season; let the boards on the benches have at least three-fourths of an inch opening between to secure good drainage, and then give the plants liberal waterings whenever they show indications of needing it, with all other treatment consistent with good management, and I really believe he will find the results much more satisfactory.

I have known many cases where bone was used that was not pure, doing a great amount of injury; in fact, unless growers can be certain that the bone meal at their command contains no injurious element, they had better never use it in the greenhouse at all. If the nature of their soil is such that it needs lime to give texture to their plants, it is safer to use a small portion of air slaked lime sprinkled lightly over the benches just before watering, two or three times during the season; this not only gives strength and texture to the plants but sweetens the soil and at the same time destroys many insect pests, but the operator must be careful not to put it on too heavy or the result will be the reverse of beneficial.

With reference to the question about a temperature of 48°, this certainly should not materially hurt the plants, in fact the only injury I have ever found arising from so low a temperature was to hold the buds on the plants somewhat longer before they were ready to cut; of course if extremes are followed, such as running the temperature up to 80° or over during the day with very little air on, and then letting it drop down below 50° the following night, the plants would naturally get quite a check, though this, even, would not cause the trouble.

There is one other thing that might cause his trouble, and that is sulphur gas from his furnace. This is an element that often does much damage without being detected till too late. The gas may not enter the house in sufficient quantity to be perceptible to persons working in it, but yet enough to do a great deal of damage to the plants, and it often comes from the furnace when shut down for the day if the dampers are not carefully looked after, and particularly on mild, damp days when the atmosphere is heavy. Such cases are very frequently caused by careless stoking or want of judgment on the part of the stoker.

JOHN N. MAY.



FIG. 1.—ROOTED VIOLETS OFFERED BY THE TRADE.

The Selection of Violets.

Several years ago the Division of Vegetable Physiology and Pathology of the U. S. Department of Agriculture, with which the writer is connected, began an investigation of the diseases of the English violet and the conditions best suited to its successful cultivation. In the cut flower market this crop stands third in commercial importance. It is estimated that in New York City alone three million dollars is annually expended from November to April for these flowers.

Successful cultivation of the violet is made impossible in many localities owing to a disease known as spot, and even in sections of the country most favorable to the crop this disease frequently causes great loss.

After visiting many growers in various sections of the country and hearing the different opinions as to the conditions best suited to successful culture of this crop, it became evident that the only way in which the desired information could be obtained was by growing the plants commercially. As the division had no facilities at its disposal for doing this work, and appreciating the immense value that would be likely to result from a careful investigation and practical solution of these problems, Mr. B. T. Galloway, chief of the division, and myself undertook the work in a private way, erecting greenhouses at Garrett Park, Maryland, our home, and there carried on the investigations independent of our office duties. In this connection it may not be out of place to state that Mr. Galloway, to whom I am largely indebted for any success I may have attained in this direction, has recently been obliged to give up this particular work on account of ill health. This is unfortunate and greatly to be regretted, for in addition to being a scientist and chief of the division, he is a practical man and a devoted lover of plants and is peculiarly fitted for investigating problems of this nature.

Our principal work has been conducted with the following ends in view:

(1) To find, if possible, the more important diseases affecting the crop and the best means of combating them.

(2) To find the best means of combating insect pests.

(3) To determine to what extent the plants can be improved by careful selection and thorough cultivation, in vigor, shapeliness, ability to resist disease, number, size, color and odor of flowers, and length of flower stems.

(4) To determine the physical and chemical conditions of the soil best suited to the growing plants.

(5) To obtain facts in regard to the best means of watering and feeding the plants during the winter months.

(6) To determine the best methods of propagation and the seasons best suited to the work.

(7) To determine the best way of marketing the flowers, the best markets, and the best time to pick the flowers so as to retain their fragrance for the greatest length of time.

Every practical grower will readily understand the many difficulties likely to arise in working out the problems above outlined. We found them even more numerous than we had at first expected. Some we have solved, some we have partially solved, and some have, up to the present time, baffled all our efforts and we realize that to throw light upon the more difficult of these may require months and even years of careful study, observation and experimenting. It is the writer's

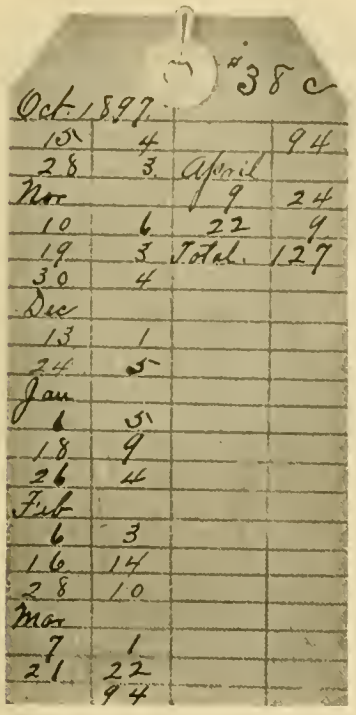


FIG. II.—RECORD OF FLOWERS PRODUCED IN VIOLET BED NO. 1.

intention to give in this paper some of the results obtained by selection of stock.

Plants, like animals, have an inherent tendency to vary, no two ever being exactly alike. For instance, one may produce a number of large, long-stemmed flowers, of good color, while another will yield fewer and smaller blossoms, off in color, and short-stemmed; some will be well formed, with vigorous constitutions, and, for a time at least, will resist disease, while others will make a feeble, ungainly growth, and readily succumb to any of the various diseases which attack the crop. By noting these facts and carefully selecting stock from plants that show the greatest improvement and approach nearest to the ideal of perfection, we are able to build up, improve, and fix more permanently their desirable qualities.

In our experience the average grower, especially of violets, pays little or no attention to these facts, and, with few exceptions, considers plants in any condition good enough to propagate from. He is content to plant or sell every cutting that roots, whether good, bad or indifferent, when, in fact, if the best results are to be obtained, about one-fourth to one-half of those rooted should be rejected, at least until the desired qualities are more permanently fixed by years of selection and cultivation. We have seldom been able to purchase what we consider first-class stock from the trade, although each season we send numerous letters to those advertising in the trade papers, asking for samples of their best plants and stating that only first-class stock is wanted. Fig. 1 is a photograph of the average samples annually received. We would not plant such stock as this were it possible to obtain better, and we claim it is possible for every grower to produce first-class stock by devoting a little time and attention each year to selection and cultivation. Some of the most successful growers, realizing the importance of these facts, propagate many more plants than they intend to set out, in order to have a sufficient number of young plants from which to select stock, and the one who succeeds in procuring even a few hundred plants of such stock may consider himself fortunate.

We keep a record of the flowers produced by each of our beds throughout the season, the number of flowers picked each time and the date of picking being recorded. Notes are also made on the general appearance and condition of the plants and on any treatment of the various beds that may be made necessary by existing conditions. These facts enable us to determine at the end of the season which beds were most profitable and which plants should be used to propagate from for the next season's stock.

Fig. 4, a photograph taken April 3, 1898, shows one of our houses containing three beds, which for convenience we will number 1, 2 and 3, commencing at the left. No. 1 contained 356 plants of our own selection, No. 2 contained 516 plants purchased from the trade last spring, and No. 3 contained 352 plants of our own selection. The plants, which were of the Lady Hume Campbell variety, were set the latter part of May, 1897. The three beds received the same treatment throughout the season. Comparatively few plants had to be reset during the summer and fall in beds 1 and 3, but in bed 2 fully 15% had to be replaced. The plants in beds 1 and 3 also made a more vigorous and healthier growth and produced a greater number of large, better-colored, and longer stemmed flowers than those in bed 2. The following table shows the number of flowers produced by each bed from October 1, 1897, to May 1, 1898:

Bed No.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Total.	Average per plant.
1	2250	3300	2350	4350	5150	6450	6150	30000	84.2
2	3250	4200	1850	3750	5250	3850	9050	31200	60.4
3	3850	3150	2450	4380	5200	4700	8250	30980	88.0

As shown by the table, the average yield from the beds of selected plants is greater in both cases than from the bed of unselected plants, the plants in bed 1 producing on an average 23.8 and those in bed 3, 27.6 more flowers per plant than produced in bed 2—a combined average of 86.1 from the selected plants as against 60.4 from the unselected, or a gain of 25.7 flowers per plant, and this with practically no additional expense. In other words, this means that had bed 2 been planted with selected stock we would have obtained at the rate of 25.7 more flowers per plant, or a total of 44,461 instead of 31,200.

A successful grower should receive an average of at least 75 cents per hundred for his flowers. At this price we would have made $99.45 more on bed 2 last season had it been planted with selected stock instead of the unselected. This means for the average grower of ten thousand plants an increase of practically $2,000 annually. In an article by Mr. Galloway entitled "Work on Some Problems in Violet Culture," published September 4, 1897, it is shown that the average yield during the season of 1896-97 from ten carefully selected plants was 88 flowers, while the average of all the other plants grown was only about 50 flowers. In this connection he says: "There is no reason why the average yield cannot be made 100 flowers." I am confident that 90 per cent of the plants grown can be made to yield from 100 to 150 flowers per plant, and possibly more by proper care in selection and cultivation.

As will be seen in the illustration, a number of the plants in bed 1 are tagged. This is for the purpose of keeping a record of the flowers produced by individual plants, so that the parentage may be known of plants from which stock is selected. Figure 2 is a photograph of of one of these tags, and it will be seen that in this particular case the yield was 127 flowers during the season. Some of the plants produced as many as 145 salable flowers.

The following table gives the yield of five plants in bed 1 during the past season; the yield of the parent plant the previous season was 85 flowers.

Plant No.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Total.
38a	2	6	6	16	10	16	28	84
38b	7	12	4	7	22	20	37	109
38c	7	13	6	18	27	23	33	127
38d	3	9	4	9	25	26	27	103
38e	3	7	2	11	13	16	30	82



FIG. III.—SELECTED PLANT READY FOR PLANTING.

The table shows that three of the five plants gave a much greater yield than the parent. The average of the five plants is 101, or 16 flowers more than was produced by the original plant. The average yield is 13 flowers more than that given by Mr. Galloway from ten plants during the season of 1896-97.

The following rules are especially recommended to growers:

1. Keep a record of the plants in the manner above described.
2. Select from plants with the best record as regards freedom from disease, shapeliness of growth and number, size and quality of flowers produced.
3. Select the very best growth from such plants for propagation.
4. After rooting select the best plants as regards freedom from disease, vigor, shapeliness of growth, root development and general appearance. If these are to be planted in flats, set in rows three inches apart and two inches apart in the row; if in beds, set three by three inches.
5. At time of final planting select from the flats or beds with the same precautions as observed when selecting from the cutting bed.

Figure 3 is a photograph of the fifth selection ready for final setting.

Washington, D. C. P. H. DORSETT.

Carnation Culture.

The hot, dry weather we have just passed through disheartened many a grower of carnations, and set many another devising ways and means of overcoming the effects of the drought.

Some growers, seeing that their plants were not making any growth, took them up and planted them in the houses, arguing that they could water and attend them better there, but this, coming so close to the time of their being planted out, gave them a double check and the result is some sorry looking lots of plants for next winter's bloom. Other growers put them into 4-inch pots in a shaded house and to-day these are fairly good plants, but not such as a good grower wants. Pots that were sunk in frames and thus given the benefit of the open air and watered occasionally made fairly good plants. This is the one and only way to grow carnations in pots.

One grower used a mixture of jadoo, brewers' hops and ashes. This gave a composition that produced a fine lot of roots, but he acknowledged it as rather expensive as it took a ton of jadoo mixed with the other ingredients to provide for 3000 carnations in 4-inch pots.

Still other growers have tried watering by various methods and where this has been well done the effects are distinctly noticeable, but hardly enough so to warrant the time and expense.

All things taken into consideration the best place for your carnation plants during a drought is in the field, providing they were planted early enough to get well started before the drought struck them. As the soil becomes dry the plants send out additional roots seeking for moisture and the dryer it gets the deeper these roots go and the more numerous they become, providing the plants are in good growing condition. If we knew exactly when dry weather was coming and transplanted or potted the carnations at the beginning, possibly we might be the gainers, but if we wait until it has been dry for some time we had better not run the risk of handling them as we are sure to loose the greater number of these feeding roots and a check will result that will be felt through the whole season.

If you leave the plants in the field and keep them well cultivated they may not grow quite so fast as you would like but when the rain does come your soil will be in condition to absorb it and the plants, with their extra number of feeding roots, will make a corresponding growth of top and you will almost see them growing. There is nourishment in a good rain that we can not supply from any other source and the top of a plant is bound to maintain its equilibrium with the roots as soon as they supply it with proper nourishment to do so.

Dry, hot weather will usually eliminate any disease the carnation is heir too and thus, if it is not too severe, is often a blessing in disguise. ALBERT M. HERR.

Livistona Rotundifolia.

This is one of the most beautiful of pot plants, its close, compact manner of growing giving it a finished appearance resembling and in fact making it a miniature of the very popular latania. To grow this plant to a good salable size, and yet retain all the seed leaves, is not the lot of every grower. In its young state, when about a year old, it is sometimes difficult to manage as, if over potted, or by reason of too much water, the leaves turn to that yellowish green hue which indicates a bad state of health. This condition is to be avoided if possible, as quite frequently the plants never grow out of it and have to be discarded eventually.

By planting out this species on the greenhouse table Robert Craig thinks he has solved the problem. The plants in the illustration are all growing vigorously, and it is evident they are in the best of health with all the seed leaves intact. This is the stocky growth which often calls for the remark from a customer "I like it because it looks so healthy." These plants will be taken up when ready for a 6-inch pot, and after three months' careful attention they will be thoroughly rooted and ready to make a bid for appreciation and a fair exchange of

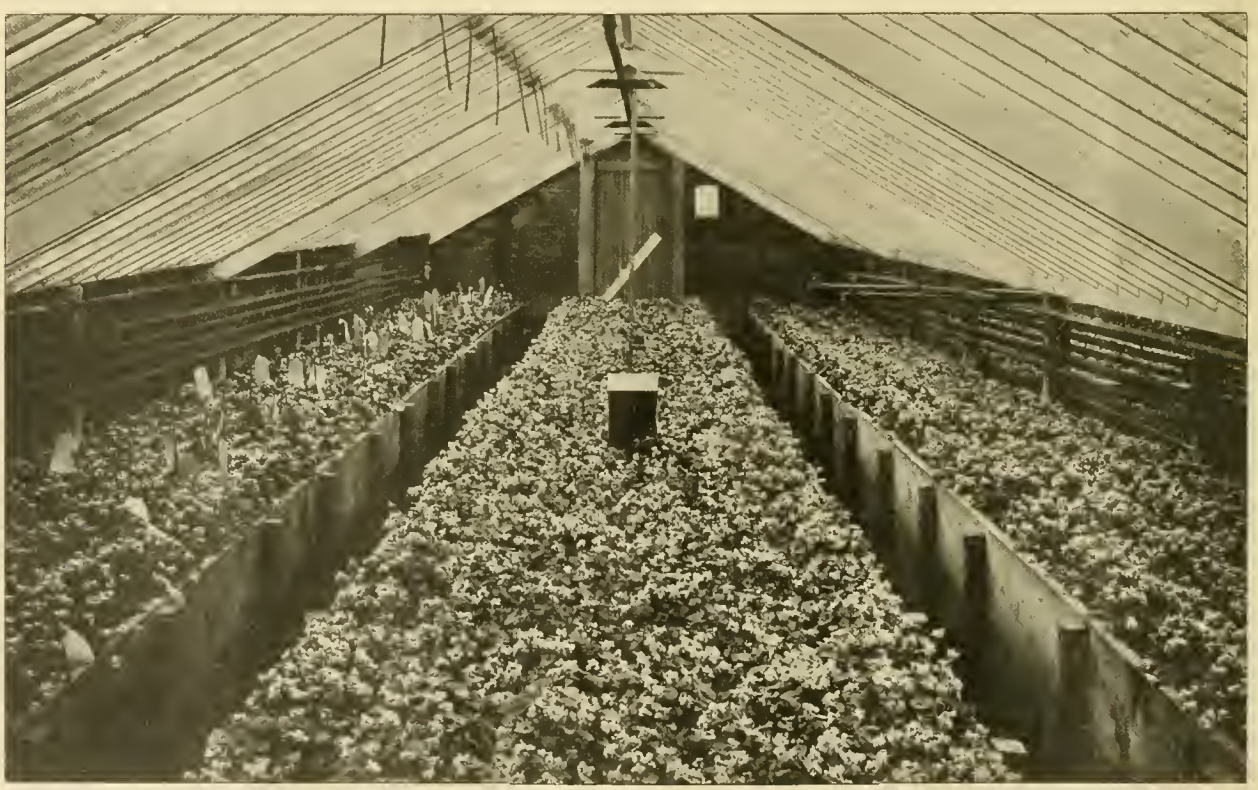


FIG. IV.—HOUSE OF SELECTED AND UNSELECTED VIOLETS.



LIVISTONA ROTUNDIFOLIA PLANTED IN BENCH.

money in all markets. This palm sells best in from 4 to 6-inch pot sizes. When grown larger the plant is subject to check, the leaves get a coarse wrinkled appearance and at times they are attacked by a green scum which requires considerable care in its removal. It seems to lose its charm when it outgrows the miniature stage. K.

Pandanus Veitchii.

The above popular plant is always in demand, and notwithstanding its tendency to rot in the center from excessive watering, when in the care of the kind soul who kills it, its high colored and graceful foliaged companion finds another possessor who fortunately is more negligent, with the result that the plant's term of life is lengthened. The illustration herewith reproduced shows a house with this pandanus planted in the benches. This method of cultivation affords stronger and stockier plants than that ordinarily pursued. Under this treatment it has also been found that they break better at the bottom, producing offsets which root easily. On account of the better access of air and light they are short and bushy and soon make salable plants, while cuttings or shoots from old stock in pots are generally long-legged and take considerable time to root.

This pandanus should neither have too much green in its leaves nor should the white predominate, as in the first case it is not readily salable and the latter state is to be avoided because the leaves rot and turn brown and the plant soon dies. All white plants are generally sold by growers at half price. James Dean used to grow this plant to perfection years ago; the green and white was evenly divided and, best of all, the colors were distinct and not run together as is often the case in a plant that is over potted or being forced too hard. Robert Craig & Son, whose house is here figured, are making a specialty of this plant and it will no doubt be seen here at its best in the near future. K.

MARQUETTE, MICH.—The loss which John Elliott sustained by fire has been adjusted and he has commenced rebuilding his greenhouses.

WILLIMANTIC, CONN.—M. T. Garrity, the Mansfield avenue florist, has bought the greenhouses and business of Mrs. M. G. Clark at the corner of Union and Jackson streets, and will remove the houses to Mansfield avenue.

New York.

QUIET TIMES IN THE METROPOLIS.—FREESIAS AND HARRISII ARE SHORT.—KAISERIN NOW THE BEST ROSE IN THE MARKET.—PRICES HAVE STIFFENED.—ERNST ASMUS PLEASED WITH HIS COLUMBIA.—CARNATIONS ARE LACKING.

The market remains dull, as reported last week, with no indication of activity in any line. Of news there is none and therefore your correspondent, with a proper regard for truth, can give none. Asters are of fair quality now, but rose stock is still very poor. Down town they report a shortage in freesias of large size and of Harrisii bulbs, which will be scarcer than was anticipated.

Kaiserin is the best rose in the market just at present. This rose would be much more popular, not only in summer, but in winter, were it not for the careless methods of the average store clerk. A rose that can be thumped and banged around without ruining it is what they delight in. Because it "bruises," Kaiserin, with its beauty and delicious fragrance, is forced to occupy a position in the rear. In colored roses, Meteor and American Beauty are the best sellers at present, and prices have stiffened up somewhat.

Carnations in the field are lacking everywhere. The number of summer carnation houses in this section does not seem to be as large as usual. Owing to the great abundance of asters, which are in the market now, all summer carnations can be dispensed with in the construction of design work, and their value is thus depreciated to such an extent as to make them scarcely worth the trouble of summer blooming in quantity. At this season of the year the Victor is so pale in color as to be scarcely distinguishable from Daybreak.

Ernst Asmus is highly pleased with the behavior of the new rose Columbia. He expects to see it take a position as one of the finest roses for summer as well as for winter. The color in winter is nearly identical with that of the American Beauty, but in summer it is much lighter—a soft, pleasing pink. The foliage and stem closely resemble Bridesmaid. Its rapidity of growth is something remarkable. It breaks out at once after cutting off the flower and is equally prolific in blooming.

Philadelphia.

PROSPECT OF A PROSPEROUS FALL SEASON CAUSES MUCH BUILDING AND IMPROVEMENT.—PENNOCK'S NEW COLD STORAGE PLANT.—CUSTOMERS TO BE ASSORTED.—A NEW COMMISSION HOUSE.—GOOD BYE TO THE EVANS CUP.—CUTTINGS

Business is very dull at present, but the stock of flowers is improved somewhat by the new cut of Beauties coming in. However, stock averages poor, with the price to match, and many are still pinching off the buds.

The prospects for a good trade in the fall are quite bright, judging from the amount of improvements being made. John Habermehl & Brother, of Twenty-second and Diamond streets, are remodeling and enlarging their store front and the show house immediately in the rear, making the new store about three times as large as the old one. S. S. Pennock is about to make extensive alterations, having purchased the property adjoining him on the west. He will add this to his



PANDANUS VEITCHII PLANTED IN BENCHES.

already large store, which will then number 1612-1618 Ludlow street. Several innovations are to be made by this progressive merchant, first among them being the doing away with his refrigerators and the installation of a complete storage plant, with commodious cold rooms for handling cut flowers in the most approved manner. We believe this is the first separate storage plant erected by any florist in this country, and speaks well for "slow" Philadelphia. Here is a chance for some one to get cheap refrigerators, as Mr. Pennock has no use for them and will sell one or all of the three very cheap. They are practically new. The power used to run the refrigerating machine will probably be electricity. The temperature at which the rooms are to be kept is 35° to 40°. Another move will be the opening of a Fakir Department, exclusively for these gentry, the balance of the building being barred to them. First we had mixed flowers, then they were graded, and now, lo and behold, the customers are to be graded. What may we not expect next?

George Moss, who for the past six years has been with S. S. Pennock, is about to open a commission house on his own account. George, who is thoroughly well up in the business, is a great favorite with the trade about town and we wish him every success.

William C. Smith, of 40 South Sixteenth street, is about moving to more commodious quarters at 1604 Ludlow street. His new store has four times the capacity of the old one and the advantage of being on the first floor and much better lighted will be greatly appreciated by his customers.

At the meeting of the Bowling Club last Thursday the boys gathered to take a last look at the Evans Challenge Cup. It seems too bad that a team could not be secured to go along and perhaps bring the cup back again, but at present writing they are not to be seen. Probably they may be found in Omaha on the day of the match; we hope so at any rate.

W. F. Dreer and wife left for Omaha on August 2. As to how many will be of the party leaving next Sunday afternoon it is hard to say. We are afraid the number will be far too few.

Next Tuesday, August 16, is to be Gardeners' and Florists' Day at Riverton. The annual visits to the Dreer Nursery at the invitation of the firm are not to be missed, as they are an opportunity to meet one's friends and with them wander about this immense horticultural establishment and inspect the novelties. Everything is now at its best, and a visit to the place is inspiring. One can not help but be benefitted and come away with a still greater love for his profession. K.

J. F. Wilcox.

J. F. Wilcox was born in Wisconsin, February 3, 1864. His parents being farmers and not blessed with a great share of this world's goods, he was compelled, at the early age of nine to do for himself, and from this time till he attained the age of sixteen he worked on a farm. Feeling that the west offered greater inducements for youth, he took the advice of Horace Greeley, "Go west, young man," and made his way as far as Council Bluffs, Ia., where he obtained a position with L. A. Casper, who was then exclusively a vegetable gardener, but who later engaged in the florist business.

Two years after entering Mr. Casper's employ Mr. Wilcox was given charge of the entire place as foreman, a position he filled until he was twenty-two, when he was admitted to partnership in the vegetable department. Later he bought the entire vegetable business, and three years afterward he bought the floral branch also. He has since increased, through diligence and push and close attention to business, and now has 300,000 feet of glass in use for floral and vegetable gardening, employing from 50 to 125 men. Twenty-two head of horses are necessary to keep up the work. Mr. Wilcox says he has made the most money out of the vegetable department of his industry.



J. F. WILCOX.

Boston.

NELUMBIUMS AS FLORISTS' FLOWERS.—HAPPY GROWERS.—ROSES AND CHRYSANTHEMUMS AT NATICK.—VISIT TO J. S. BAILEY'S.—CYPRIPEDIUM CERTIFICATES.—VERY FEW FOR OMAHA.—BRIEF LOCALS.

The most noticeable flower in the market to-day, out of the ordinary run of florists' stock, is Nelumbium luteum, which has become thoroughly domesticated in some of the ponds near here and which are being brought in in large bundles, the immense fragrant yellow flowers making a grand show in the florists' windows, most of which are devoted wholly or in part to displays of aquatic flowers. Very little is being done in the way of business and the store florists are getting used to the torpid drowsiness of the summer season. One now hears no complaining and all take it as a matter of course. With the growers things are very different. Many of those from outside the city gates, who have been "lost to sight but to memory dear" for the past six weeks are now beginning to crop up with a complacent look of relief on their faces and a coat of tan on their arms and necks, and one can almost read their thoughts—"those houses are all repaired and planted at last, the coal is in the bin and everything is snug, now bring on your winter season and you'll find us all loaded and ready."

Grafted roses are in the ascendency at Waban Rose Conservatories. These are confined to the solid beds only and comprise full two-thirds of the entire stock. Mr. Montgomery points with pride to a house of grafted Bridesmaids, planted on June 25, which are now from two and one-half to three and one-half feet high, and averaging six to eight good buds to the plant already; on their own roots they would take probably three months to reach this stage. The pipes are not run under the beds but alongside—the rubble foundation being left practically exposed, and thus giving an opportunity for the heat to penetrate underneath. No new houses have been erected this season, but an immense amount of repairing and general rebuilding of benches has been done—some idea of which is given in Mr. Montgomery's statement that over a ton of nails and half a ton of spikes have been used up this summer. Pruning and tying down the plants in the second year beds is now going on. From one of these houses, three hundred feet in length, there were cut in the month of June 20,000 roses. The usual number of chrysanthemums is being grown. It would seem almost impossible to improve upon the chrysanthemum as grown here in past years, yet the impression given in looking at them now is that they are unprecedentedly fine. Mr. Montgomery calls these his recreation houses and says they afford him a world of relief after the drudgery and monotony of the rose grower's life in summer.

The Garden Committee, with a few other members of the Massachusetts Horticultural Society, visited the estate of J. S. Bailey, at West Roxbury, Wednesday, August 3, and were most hospitably entertained by William Donald, the gardener in charge. All were surprised and delighted as Mr. Donald escorted them about the spacious grounds and the wonderful results which he has been able to accomplish in the brief time since this new place was entrusted to his care. The planting of trees and shrubbery belts about the lawns and of climbers on the balconies of the mansion are all effectively done and scrupulous neatness prevails throughout. The interior of the greenhouses was found to be equally creditable, stove plants, orchids and grape vines all showing the most skillful handling.

J. E. Rothwell was awarded a certificate of merit at Horticultural Hall last Saturday for Cypripedium A. de Lairesse, a cross between C. Curtisii and C. Rothschildianum. Another Curtisii cross was shown by E. G. Uihlein, of Chicago, C. Uihleinianum, in which Spicerianum was the other parent. Mr. Uihlein was also represented by plants of Anguloa albomagna and Saccolabium Blumei. Rea Bros. made a display of phloxes and veronicas. Annuals were shown by J. L. Gardner and Mrs. Gill, and a table of auratum lilies by R. and J. Farquhar & Co. The collections of wild flowers staged by several parties were very fine.

When the visit to Omaha was talked of, one year ago, there was no lack of eager volunteers who were sure they would go to see the great west, but one by one they have dropped out of the list, some with valid reasons, some with slim excuses, and it is a pity that it is so, for they will miss the opportunity of a lifetime and New England's prestige in membership will be at a discount this year.

G. S. Congdon and S. Kinda, of Bristol, R. I., have been in town interviewing Superintendent Pettigrew on the subject of the elm leaf beetle which has been ravaging the magnificent street trees of that town.

W. H. Long has just returned from a two weeks' vacation in the Catskills.

D. Hartford has closed out his store on Portland street.

George A. Sutherland is enjoying his afternoons on the harbor.

Mrs. Robt. Moltman died at her home in Cambridge on August 5.

Chicago.

THE APPROACHING END OF A PECULIAR SUMMER SEASON.—STOCK IS STILL SCARCE.—DULL DAYS THIS WEEK.—OUTING AT MILWAUKEE.—A PICNIC NEXT YEAR.—ALL ABOARD FOR OMAHA.—PERSONAL AND OTHERWISE.

This has been an uncommon season in more ways than one; a season during which dull days have succeeded busy ones; a season which has been noted for the shortage of summer flowers, yet these same hot weather blooms have been better than usual. Prices have ruled considerably higher than the ordinary summer level, but the volume of trade has been so decreased that the season's business will not exceed that of last year. However, the winter should show an increased production of fine stock as the result of the unusual early planting and careful cultivation of most growers.

The past week has been a peculiar one. It followed several days of brisk business, but saw an unexampled lassitude in the market. Tuesday was one of the dullest days of the year and Wednesday was but little better. On Wednesday one fakir, who waxed indignant at being called a Greek, drove a bargain at one commission house which will probably stand unequalled. He bought the end of the rose stock of the morning, a box of from 1200 to 1500 Kaiserins and Meteors, for $3 and went out declaring that he had been robbed. The flowers were of fine quality and State street pedestrians bought them rapidly at ten cents a dozen.

Carnations have been rather poorer than the average this week and old rose stock has also shown a considerable decline, particularly Beauties. The new cut of roses is increasing gradually and the size is also on the up grade. Prices have not yet advanced.

The Chicago Florists' Club and its friends to the number of 150 visited Milwaukee on Thursday, making the trip upon the Virginia. It was an ideal day for a lake voyage and the occasion was enjoyed to the utmost. The stay at Milwaukee was of two and a half hours' duration and afforded the Florists' Club of the Cream City an opportunity to take the guests about the town, showing them the sights of interest, principal among which is the great Pabst brewery, the largest in America. The excursionists were met at the wharf by a military band and were escorted to electric cars for a ride over the principal lines. A number of Chicagoans had taken their bicycles and thus had vehicles of their own. The Milwaukee reception committee consisted of A. Klokner, C. C. Pollworth, Wm. Edlefsen, Wm. Ellis, G. N. Ringrose, C. Hoppenrath, Nic Zweifle, F. P. Dilger, M. Menges, Fred Holton, Herman Hunkel, Mr. Schmidt, Ben Gregory and C. B. Whitnall.

Enjoyable as have been the outings of the Chicago Florists' Club, something better is proposed for next year. The club has held one picnic and it was an occasion now frequently recalled with pleasant memories. It is hoped by many that hereafter the club may substitute one whole day's outing at some accessible, pretty picnic ground for the Sunday trips which have been in vogue. Edgar Sanders, or "Papa," as the boys affectionately address him, has been the busy man of this season's outings and is a warm advocate of the picnic plan; in fact, it was he who first proposed it. It is thought that, if a day is selected weeks in advance, all the stores, both wholesale and retail, can be induced to close and that such a retreat as Burlington Park or Laurelwood would attract literally thousands of florists and their friends.

Mrs. John A. Heller, of Quincy, Ill., who has been staying some time at Lake Bluff for her health, is now much improved and visiting with friends in this city.

C. L. Washburn and family and Miss Bassett returned on Tuesday from a five weeks' trip through Colorado. They visited all the points of interest and report a most enjoyable outing.

James Leonard, the nine year old son of S. F. Leonard, passed away last week. The family has the sympathy of their many friends in the trade.

N. J. Rupp, of the Moninger Company, has packed up his diminutive greenhouse and will meet the boys upon their arrival at the convention city.

There were seven bowlers in the game last Friday night. The team at Omaha will be a fairly representative one, but will not be in good practice.

Louis Gresenz, of Bassett & Washburn, has now enjoyed half of his two weeks' vacation. Upon his return Mrs. Horton will go to Saratoga for an outing.

J. E. Killen, representing C. H. Joosten, of New York, called on Chicago friends this week while en route to Omaha.

Albert Fuchs has a large order for decorations for the Bismarck Memorial at the Auditorium next Monday evening.

Charles J. Reardon, of Keokuk, Ia., is in the city spending his vacation with his people.

Mr. and Mrs. James Hartshorne have welcomed a daughter into their family.

C. S. Stewart has reached Omaha on his bicycle trip and will visit his brother there until after the convention.

Visitors: Chas. E. Schoenle, St. Louis; Z. K. Jewett, Sparta, Wis.; Wm. Trillow, Belleville, Ill.; H. D. Rohrer and son, Lancaster, Pa., en route to Omaha.

Joliet, Ill.

The Chicago Carnation Company, of which James Hartshorne is manager, have commenced the erection of eight carnation houses each 22x200 feet. The cypress is furnished by A. Dietsch & Co., Chicago, and the glass by the James H. Rice Company. Over 1400 boxes of 16x24 glass are required and at over $4 per box represent a considerable investment. The work of construction will be rushed in order that about 40,000 carnations may be planted in the houses this fall.



ANGULOA ALBO-MAGNA.—SEE BOSTON LETTER, PAGE 38.

Buffalo.

AUGUST THUS FAR IS DULL, BUT TRADE SHOULD NOW PICK UP.—OUTING OF THE FLORISTS' CLUB PREVENTED BY RAIN.—KASTING ABSORBS THE CUT FLOWER EXCHANGE.—MRS. NEWLAND'S IMPROVEMENTS.—NOTES AND COMMENTS.

Trade in general does not show any increase over July, still it was no worse, and I think that from now on we will see an improvement.

When the committee of the Buffalo Florists' Club selected last Wednesday for the outing at Grand Island they failed to consult the weather clerk, and he showed his displeasure by turning loose both wind and rain just as the boys and girls, young and old, came trooping down to the dock. There was to have been a ball game between Scott's nine and the Buffalo Florist Giants, and other fun was planned, but the storm stopped everything and the trip was postponed until later in the month.

Kasting's cut flower business and the Buffalo Cut Flower Exchange have been consolidated, Mr. Kasting buying the Exchange.

By reason of changes in the grounds at Forest Lawn Mrs. D. Newlands had to remove one of her houses and put one up on the south side of the present one. It will be large and will be devoted to carnations. When completed it will make her place very convenient for her fast increasing trade.

Phil. Scott was ill last week, we think because of anxiety about the ball game which did not happen and too much practice.

Adonis George Smith, who so ably assists Kasting, was on a vacation last week to Humboldt Lake and Crystal Beach.

Will Grever, with the artist's hair, who poses in Adams' store, snap shoots every one who enters. He is a kodak fiend in every sense of the word.

Will Palmer called last week while in the city. He is out at Lancaster superintending the construction of those new houses which, when completed, will be the finest range of glass in western New York. Max Beatties came in last night with the rain; he was damp but his paper boxes were all right. Mr. Walker, representing Robt. Craig, was a recent commercial tourist here. W.

San Francisco.

ROSE AND CARNATION HOUSES BEING PLANTED.—SWEET PEAS TO THE FRONT.—ASTERS COMING IN.—LILIUM AURATUM IN GOOD DEMAND.—OUTSIDE STOCK DOING SPLENDIDLY.—PRINCESS OF WALES VIOLET PLANTED EXTENSIVELY.—PERSONALITIES.

Trade has been very quiet in this city for several months past, in fact there is practically nothing doing in the cut-flower line. Many of the growers are now replanting their rose and carnation houses, so that there is not a very large quantity of either of these two flowers being brought into the market. Roses are, as a rule, very poor, due chiefly to the excessive heat which we have been experiencing during the past few weeks. Perle, Kaiserin, and Testout are about the only varieties of good quality. Sweet peas are about over for the season, but we still have some very good ones coming in. These flowers never were better than they were this year. They kept their true color and never lost their fine form during the entire season. The following varieties were most in demand: The Bride, Mars, Prima Donna, Royal Rose, Countess of Radnor, Lady Penzance and Blanche Ferry. Lady Mary Currie is going to be one of our most popular varieties for cutting when it becomes known. The prices of sweet peas held up splendidly this summer.

Asters are beginning to make their appearance and are selling very well but as yet the supply is very limited. Semple's are still the leaders. Lilium auratum is in good demand this season and is bringing $2.50 per dozen stems. Owing to the excessive drought the quality of some of the stock is rather poor. Amaryllis are also to be seen and are meeting with a fair sale. Carnations are coming in daily and the quality is excellent. Flora Hill is the leading white, with Portia, Daybreak and Scott each having their own admirers.

All outside stock such as violets, chrysanthemums, etc., have done splendidly considering the dry season. Chrysanthemums, it was thought, were going to be a failure, but they have come on nicely and prospects for the coming season are very good. About the same acreage is planted as last season. Violets, particularly, have had a hard time to survive the drought, but from all accounts are doing well at the present time. Princess of Wales has been extensively planted by all the growers, so that there will hardly be a shortage of that variety this winter.

Thos. H. Stevenson, the London florist, has again started for the Klondike. Before departing he removed his store from the Columbia Theatre building one block further up Powell street, where the very neatly arranged new store is in charge of Mrs. Stevenson.

A new flower store has been opened on Powell street between Ellis and O'Farrell, known as the California Floral Depot.

Shannahan has moved his store from Geary to Stockton street.

Several of the young florists of this city have departed for Manila. Five well known young men have gone from the different stores.

Chas. C. Navlet, of San Jose, was in town several days this week.

H. M. Sanborn, of Oakland, has returned from an extended eastern trip.

J. Carbone is now with Wm. Gage in Oakland.

Chas. Navlet has moved his Sacramento store to much larger quarters on K street.

S. M. Parker is now with Mr. Sidney Black at Menlo Park.

Chas. P. Braslan and family, of Chicago, are on a visit to this state. Mr. Kiley also accompanies the party. Mr. Braslan says prospects for good crops have gone but that the shortage will have a beneficial result in the seed trade this year.

N. Sluis & Son, of Holland, have been on an extended tour of the seed growing districts of this state.

James T. Lynch, with M. Lynch, of Menlo Park has returned from a trip to the different seed farms in the south.

Howard M. Earl, W. Atlee Burpee's genial representative to California this summer, has returned east. This was Mr. Earl's first trip to our state and he is much impressed with the great strides made in seed growing.

Chas. Gavenach, who was killed by a train recently, will be remembered as being foreman for the Sherwood Hall Nursery Co. at one time.

Arthur Cann, of the Garden City Floral Co., paid us a visit during the week.

Angelo Baldocchi is at Capitola for the summer.

A. B. Westland has accepted a position with C. A. Baldwin, of Mount View. Mr. Westland intends to start for the Orient in the fall.

J. Gilmour has returned from Los Angeles.

There is some talk of a commission house in this city at present. This has been talked of so often, and nothing has ever materialized that we hope this time it will prove a reality.

Waldo Rohnert, the popular young seed grower, spent several weeks in town lately.

Fred. M. Quickert is now foreman for M. Lynch at Menlo Park.

Andrew McDonald has resigned his position with C. A. Baldwin and assumed charge of the rose houses of Peter Donahue at Laurelwood.

Mr. Lackyer, who opened a flower store at San Jose, has gone out of business.

Sidney Clack has completed the replanting of all his greenhouses and his stock is all looking in excellent health at present. Mr. Clack has some fine American Beauties coming in. His carnations, are as usual, very fine. Mr. Clack's family are spending the summer at Del Monte.

Kenneth S. Murray, who has charge of Mr. Talbot's place, is the happy father of a bouncing baby girl.

Angelo Rossi has been at Camp Montgomery for the past few weeks.

METEOR.

Indianapolis.

GROWERS FACE A PROMISING SEASON.—SMALL DELEGATION FOR THE CONVENSION.—FLORISTS' CLUB WILL LISTEN TO ESSAYS.—JOTTINGS HERE AND THERE.

With business at a standstill and summer work all done one would think the conditions to be ideal for a trip to Omaha; but in spite of this, your correspondent failed to discover more than one person entertaining an intention of joining the convention party.

Things look exceptionally promising with the Indianapolis growers. A. Wiegand & Son have several houses of fine palms ready for fall trade. John Hartje, our leading carnation grower, has most of his plants housed and is busy planting violets; the Berterman Floral Company is planting carnations more extensively than in former years, and also have some of their plants housed by this time.

Huntington & Page are now harvesting their onion sets, of which they have fifteen acres in fine condition. E. Y. Teas, the well known Irvington nurseryman, intends to retire from business. His future home will be with one of his sons.

The August meeting of the Florists' Club was attended by only a few of its most faithful members. Frank Alley presided, the president as well as vice president being absent. Several members expressed regret that no papers had been read of late, whereupon it was resolved that at each meeting one member shall be "condemned" to prepare a paper for the following month's session. It was also ordered that a question box be provided.

The florists comment favorably upon the premium list for the next state fair. It will be remembered that last year's list did not meet with the approval of the trade, resulting in the poorest floral display ever seen at any of our fairs.

H. JUNGE.

HARTFORD, CONN.—J. G. D. Newton, the Parkville florist, who has been very ill with inflammation of the stomach is convalescing and will soon be completely recovered.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.
Subscriptions accepted only from those in the trade.

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THERE is a practical unanimity of opinion that the tide has turned and that business and prices are upon the up grade.

TWO new standard boilers, one constructed for steam and the other for hot water, are being placed on the market by Giblin & Co., Utica, N. Y.

THE next issue of the AMERICAN FLORIST will contain a detailed report of the proceedings of the Omaha convention. It will be a highly prized number and an exceptionally potent advertising medium. Copy should reach this office not later than Thursday morning.

JOHN N. MAY, receiver of Pitcher & Manda, has notified the creditors of the concern that there has come into his hands $133,932.61; that his disbursements, including dividends paid, are $124,292.21; that there remains in his hands $9,629.47. On September 12 the receiver will ask the Court of Chancery to fix his compensation at $4,500 in addition to $3,000 already paid, and the compensation of his counsel at $400 in addition to $600 already paid, and to order the disbursement of the remainder, after payment of costs, pro rata among creditors, who have filed claims to the amount of $67,560.10.

The Florists' Hail Association.

The report of Treasurer Albert M. Herr, for the year ending July 1898, is at hand. It shows the society to be in a healthy condition with receipts (including balance of last year) to the amount of $16,596.90. The losses paid during the year aggregate $7,585.88; working expenses $6,030.09.

Greenhouse Building.

Lancaster, N.Y.—W. J. Palmer & Son, two commercial houses each 19x125.

Rochester, N. Y.—E. R. Fry Floral Co., three commercial houses.

Brooklyn, N. Y.—D. C. Van Walkenburg, two commercial houses each 20x56.

New Bedford, Mass.—F. W. Bryant, one greenhouse.

Newton, Mass.—Mrs. F. C. Coburn, one palm house with two wings and propagating house, by Lord & Burnham.

Reading, Mass.—Mrs. R. Shackford, one conservatory 17x36. Geo. A. Shackford, one conservatory 18x70, by Chas. Ingra n.

Portland, Ore.—S. J. Lemmon, one house 14x70 for smilax.

St. Paul, Minn.—Christ Hansen; violet house 11x120.

Buffalo, N. Y.—Mrs. D. Newlands, one carnation house.

Cleveland, O.—H. Graham & Son, two carnation houses.

Omaha, Neb.—G. A. Joslyn, range of greenhouses.

Williamsport, Pa.—Evenden Bros., carnation house 51x160, violet house 12x160.

Grand Rapids, Mich.—F. A. Chapman, one commercial house.

Oconomowoc, Wis.— Otto Sylvester, four houses each 18x70.

Hartford, Conn.—John Coombs, three commercial houses.

The Society of American Florists.

ED. AM. FLORIST:—I wish to make public my views on the remarks of Mr. Rudd, in the AMERICAN FLORIST of July 9, on the doings of the executive committee of the S. A. F. at Washington last April.

I know Mr. Rudd and I like him, but I do not like his criticism upon our labors at Washington, of which I will take up but one point, namely, the Florists' Protective Bureau, which Mr. Rudd has condemned so forcibly in a beautiful combination of words and a fine display of learning. Yet, with all of his accomplishments, he could not hide the selfish current that ran between the lines of his article.

All of us who are compelled to earn a living have something to sell. I have plants to sell to every reliable florist in the country and it is worth much to me to get accurate information of those whom I may trust with safety. Mr. Rudd has his knowledge as superintendent of cemeteries and parks to sell and as that is mostly sold to large corporations, which are always good, he has no interest in the standing of the large number of florists of the country and does not want a part of his annual dues to go to that in which he is not concerned personally. The executive committee at Washington started the protective bureau with the hope and expectation of giving the members of the S. A. F. something that would be of much value to most of them in exchange for their dues. Whether it will be successful or not I cannot say. It depends upon who will run it. If I was sure of the bureau getting such a committee as the hail insurance has, I would have no fear of its success. There is one remark of Mr. Rudd's that I do agree with, and that is where he states that the question should be discussed so that the members may go to Omaha prepared to act upon so important a matter.

WM. K. HARRIS.

Notes and Comments.

I am pleased to notice so strong a disposition from the different cities to invite the S. A. F. to hold its next convention in 1899 within their hospitable confines. It is all very well for the strictly practical man of affairs to state that the S. A. F. should not await an invitation to hold its annual convention at any given point but go in and take the town by storm, as it were. Our society, however, has hitherto depended upon the plan of invitation and taking everything into consideration it is apparently better to be continued in that way. As at present understood it was not the florists of Omaha or Nebraska who invited the S. A. F. to hold the 1898 convention in that city, but those who were in the employ of the promoters of the exhibition held there were sent on to invite our society among many other organizations of a similar character. A kindred organization, the American Association of Nurserymen, was invited by the eloquence of those calculated to have the desired effect, in a similar way to that which the Society of American Florists was carried, and, as I get it from good authority in the older organization, it was treated with scant courtesy by those who were responsible for the carrying of the convention and the consequent acceptance of the invitation to Omaha. Had it been the florists and horticulturists proper who had extended the invitation to hold the convention at Omaha this year, it would have been treated with more consideration by the conservative element of the society. But the believers in manifest destiny are under the impression that what was done at Providence will eventuate to the benefit of our grand old society. E. L.

Presidential Requirements.

Here and there we have already heard a suggestion or two in the line of desirable men to lead the S. A. F. for 1899. Those who have been present at the thirteen or more annual gatherings since we began at Cincinnati in 1885, are, of course, acquainted with the requirements which appertain to presidential timber. For the thoughtful study of those members whose connection with the society runs back to a more recent date, or who may, perhaps, join in this session, it may be well to mention some of the conditions which, with each successive annual election, have had careful consideration.

No man has yet been chosen president of the S. A. F. who was not an active practical florist, acquainted with and trained in close personal knowledge of the growing of plants, and this is as it should be. No other should represent so large a body of practical workers.

For the past six or eight years, possibly more, the thoughtful and deliberate rank and file of the society have seen fit to elevate to this highest office some man who has been identified with the organization from its inception, or nearly so. To such an extent has this kindly recognition been maintained, that comparatively few old seasoned wheel horses are unhonored. A few remain, and we hope that when their turn comes to go in they may do so by acclamation. There are, however, recent indications that it is the will of the society to bring along our younger men, that from them we should hope for new ideas, new methods, new plans.

Geographical location has always been carefully considered in our councils and generously carried out. If the east has had a president this year, the west received it the following August, and with rare exceptions this custom has been followed. Last year we had a president from Ohio, the central section; this year we have had one from Washington, D. C., which may be fairly called east. The first expectation, therefore, would locate the man for 1899 west of the Ohio river, though were he located in far New England the west could hardly complain.

The coming president of the S. A. F., who meets the conditions named above, must also have made his mark as a practical man of the trade, and must have the brains and ability to carry forward the duties of his office on a plane which the very complete and careful work of the past thirteen years demands. An up-to-date, live, go-ahead and practical man of affairs is called for and must answer "Aye."

ALEXANDRIA, VA.—John Robertson, the florist died July 25, aged 63. He was a native of Scotland and was gardener at the White House during President Grant's administrations.

Postal Regulations.

Wide currency has been given to a report that the Post Office Department has issued an edict requiring publishers to attach to their publications all sheets transmitted therewith. This has been construed to apply to order sheets sent out with catalogues, but Third Assistant Postmaster General John A. Merritt calls attention to the fact that the order in question applies to second class matter only, and not to third class, under which head catalogues are admitted to the mails.

Since July 1 the postal authorities have declined (order 241, June 17) to return to sender undelivered second, third and fourth class matter until the postage has been fully prepaid. This is of much importance to catalogue men, as most of them have depended upon the return of undelivered copies to keep their mailing lists revised to date. By this order postmasters are instructed whenever, in their judgment, undelivered matter is of sufficient value to warrant it, to notify the sender of its non-delivery, and thus give him an opportunity of paying the return postage. This compels the catalogue man, should the postmaster consider the publication of value, to pay 2 cents letter postage besides the cost of remailing his pamphlet. This is a matter of importance from several view points and is a fitting subject for the efforts of the legislative committees of the societies the members of which suffer by this ruling.

The Convention Programme.

The complete programme for the fourteenth annual meeting of the Society of American Florists, at Omaha, Neb., is as follows:

TUESDAY, AUGUST 16, 1898.

Opening session 10:30 a. m.
Music.
Prayer—Rev. John Williams, Omaha.
Address of welcome—Hon. Frank E. Moores, Mayor of Omaha.
Response—Edmund M. Wood, Natick, Mass.
President Gude's address.
Reports—Secretary, Treasurer, State Vice-Presidents, Standing Committees, Special Committees.
Appointment of Exhibition Judges.
Miscellaneous business.
Exhibition closed during session.
Payment of Dues—Members will please pay annual dues and sign the register at the secretary's office in the Convention Hall.
2:30 p. m.—Judging exhibits by Committee on Awards Exhibition closed while judges are at work.
3 to 6 p. m.—Reception at Lininger Art Gallery.
8 p. m.—President's reception in church parlors under the auspices of the Nebraska and Iowa Florists' Club.
9 p. m.—Lecture, subject, "The Real Russia," illustrated with stereopticon views, Prof. F. W. Taylor.
Exhibition open during entire evening.

WEDNESDAY, AUGUST 17, 1898.

Reports of Exhibition Judges.
Action on proposed amendments to by-laws.
Action on recommendations of Executive Committee to establish permanent Departments of Credit Information, Co-operative Purchase, Claims, Arbitration and Legislation.
Selection of place of meeting for 1899.
Nomination of officers.
The Question Box.
Exhibition closed during session.
Sessions of the Chrysanthemum Society of America (2 p. m.), Florists' Hail Association (3 p. m.), and American Carnation Society (4 p. m.) will be held on Wednesday afternoon.
The bowling contest will take place at 2 p. m. at Krug Park.
8 p. m.—A paper, subject, "Trade Exhibitions, Their Value to the Florists' Business," E. H. Cushman, Euclid, O.
Discussion.
A paper, subject, "The Dahlia" (under the auspices of the American Dahlia Society), L. K. Peacock, Atco, N. J.
Discussion.
Exhibition closed during session.

THURSDAY, AUGUST 18, 1893.

10 a. m.—A paper, "Grafted Roses for Growing Under Glass," Robt. Craig, Philadelphia, Pa.
Election of officers.
The Question Box.
Exhibition closed during session.
1:30 p. m.—Trolley party through Council Bluffs, calling at J. F. Wilcox's establishment. Lunch at Fairmont Park. Start from Paxton Hotel.
8 p. m.—Discussion: "Improvement in Varieties and Improvement in Cultural Methods as Exemplified in High Grade Flowers," to be opened by E. G. Hill, of Richmond, Ind.
The Question Box.
Exhibition closed during session.

FRIDAY, AUGUST 19, 1898.

All day at the Trans-Mississippi Exposition. Admission free to members. Get tickets from the Secretary of the Society of American Florists.
11 a. m.—Addresses at the Nebraska Building by C. W. Wattles, President of the Trans-Mississippi Exposition, Mayor T. S. Clarkson, General Manager of the Trans-Mississippi Exposition, F. W. Taylor, Superintendent of Horticulture, Trans-Mississippi Exposition.
12 to 3 p. m.—Lunch at Nebraska Building.
Mr. F. W. Taylor invites all members of the Society of American Florists visiting the grounds during convention week to make the Horticultural Building their headquarters, where every convenience will be provided for them.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.
Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED—By a single young man for general greenhouse work; 7 years' experience, sober, reliable. References. South or west preferred. Address 2038 Garfield Ave, Lincoln, Neb.

SITUATION WANTED—By experienced florist as foreman, good commercial or private position. Specialties, fine roses, carnations, 'mums, violets; good designer. G. Box 51, De Haven, Allegheny, Pa.

SITUATION WANTED—Gardener and florist, practical experience growing plants and cut flowers; specialist in roses, middle age, single. State wages. A. GERGEN, care Memphis Floral Co., Memphis, Tenn

SITUATION WANTED—By a practical and life experienced grower, a specialist in roses, carnations, mums, palms and ferns. Would like to get a place with a wholesale cut flower firm. Address D. CASEY, St. Louis P. O., Mo.

SITUATION WANTED—By man competent to take charge of any cut flower place; can grow Beauties as well as anyone, am Hollander, 29, married, 2 children. Want place as foreman or assistant. Good references. J. S. STREMLER, Princeton, Ky.

SITUATION WANTED—As foreman, competent to take a position where choice roses, carnations, 'mums, etc., are the object; 13 years' experience, two years with Mr. May. Within 50 miles of New York preferred. Address S A H, care Mr. May, Summit, N. J.

WANTED—Good practical florist, sober and industrious. Wages $20 per month and board, steady place. State references. M M, care Am. Florist.

WANTED—Young florist as assistant rose and carnation grower, German with some experience on commercial place preferred. G W S, care American Florist.

WANTED—At once, a good all-round florist to grow roses, carnations and 'mums; $20 per month to start; will pay more if he proves himself capable; good home; steady place. C. HUMFELD, Clay Center, Kan.

FOR SALE—Greenhouses at a great bargain. Address P, care American Florist.

FOR SALE—Four greenhouses, nearly new. Good retail stand. A. CLAUS, Springfield, Ill.

FOR RENT—Good paying retail houses, new, of 5000 feet, in city of over 20,000. Renter to buy stock. A B, care American Florist, Chicago.

FOR SALE—Small heater in running order, embracing boiler 200 feet, 4-in. piping, tank, valves, etc. GEO. B. MOULDER, Smiths Grove, Ky.

FOR RENT—To reliable party, the old establishment consisting of 11 greenhouses; 16,000 feet of glass; newly rebuilt; also store; finest location in Chicago; cause poor health. GARFIELD PARK FLORAL CO., 1988 W. Madison St., Chicago.

FOR SALE—21 acres land, suited to gardener and florist, in city limits, St. Charles, Ill.; small house, and buildings all new; 35 miles from Chicago; two railroads; on street car line; near cemetery. Price $3000. Address H. SWABY, Eldora, Iowa.

FOR SALE—A first-class florist's business, greenhouses, dwelling, storeroom and everything necessary to carry on a successful business, situated in the center of one of the best business towns in the Indiana gas belt. For particulars address E S, care American Florist.

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Hot water heater, suitable for 60-foot house. Fine condition. $25.00.

CHAS. SCOTT, Waveland, Ind.

WANTED

Man to take charge of country place. One who has had experience in growing outside stock and in cold frames. Must be a total abstainer. Either single or married, but no children. A good chance for a man showing ability. Address 108 So. 12th St., Philadelphia, Pa.

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One block from corner Lincoln avenue and Wellington street, a bunch of lots at $25 per front foot, sewer and water. Suitable for greenhouse purposes.
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Tel. Main 3868, Room 5, 154 Lake St., Chicago.

FOR SALE.

My entire plant of greenhouses, dwelling house, barn and workshop, horse, carriage, flower wagon, plumbing tools, 1500 feet of new glass 16x16 and 16x24, five acres good land, two acres fruit of all kinds. Stock to all house this fall. Good market in cut flower trade. Call or write for further information. Poor health the cause of sale.

A. A. WELDEN, Berlin, Conn.

FOR SALE.

Three greenhouses in town of 5000, with six sanitariums, health and pleasure resort; no competition. Houses practically new, in best repair. Large office and cut flower cellar. Two large lots 72x132 feet each. City water, steam heat. Houses stocked with young roses, young carnations, smilax, etc. Doing a nice business in cut flowers. Will make a big bargain to someone if taken at once. One-half cash, balance to suit. Investigate. Address

H. R. WINN, Martinsville, Ind.

FOR SALE!

A florist establishment for sale consisting of 13,000 sq. ft. of glass, in good condition. Heated by steam; in the city limits, located in a city of 18,000 inhabitants on the Mississippi river in Iowa, with several acres of land and dwelling house; must sell soon on account of old age. For further particulars address

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Omaha.

SPACE IN EXHIBITION HALL IS AT A PREMIUM.—SUPT. STEWART ARRANGING FOR MORE ROOM.—A BIG TRADE DISPLAY IS ASSURED.—OMAHA'S TEAM OF BOWLERS WILL BE LED BY THE VETERAN, A. DONAGHUE.—DREER'S AQUATICS.—FROM HERE AND THERE.

S. B. Stewart, Superintendent of Exhibits at the Society of American Florists' Convention, says that space in exhibition hall is all taken up, but that he is making arrangements for considerable more to accommodate all. States of California, Washington, and other old exhibitors, and a great many new ones, are making urgent requests for space to exhibit novelties which have not been shown before.

Prof. F. W. Taylor, Superintendent of Horticulture, kindly offers the alcove in Horticultural Hall for the use of visiting florists, and there tables and stationery will be provided for their use and they are requested to make themselves welcome.

George A. Joslyn, of 401 Davenport street, is just completing a fine range of modern structures, Hitching & Co., of New York, supplying the material, and will have as fine grounds and conservatories as there are in the west.

After a series of fifteen games, concluded August 8, A. Donaghue, Sr., gained the place of captain of the bowling team, also winning a gold headed cane and silk hat put up for highest score. J. F. Wilcox gained second place with a score which was very close to first, and captured a ball put up by club. J. H. Hadkinson came in third and also obtained a lignum vitæ ball. G. Swoboda and L. Henderson won places on the team which will compete for the Evans Cup. L. C. Chapin and A. Donaghue, Jr., are the reserve force.

The following plants are in bloom in Dreer's aquatic exhibit at the exposition: Nymphæa O'Marana, N. chromatella, N. rubra rosea, a seedling pure white, good, with large upright flower; N. Deaniana, N. Layd-purpurea, N. Smithiana, N. Laydekeri rosea, N. coerulea, N. gracilis, N. Kewensis, N. Robinsonii, N. delicatissima, and also a fine bloom on Victoria Tricheri.

The flower parade given last week was so successful that it was repeated, and the pageant may make a third and last appearance during Florists' Week.

The Trans-Mississippi gardeners have the whole landscape force at work coaxing up the tardy bloomers and adding the finishing touches to the special floral attractions.

Siebrecht & Son have been busy rearranging their exhibit in order to make room for New York and Idaho.

J. H. H.

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CINCINNATI, Aug. 11.

Roses, Brides, Bridesmaids	2 00@ 3.00
" Meteors	3.00
" Perles	2.00@ 3.00
Carnations	.75@1.00
Tuberose	3.00
Gladioli	2.00@ 3.00
Smilax	10.00@12.50
Adiantum	1.00
Asparagus	50.00
Asters	1.00
Common ferns	.20

ST. LOUIS, Aug. 11.

Roses, Beauties	3 00@15.00
" Meteors	2.00@ 5.00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	2.00@ 3.00
" Kaiserins	2.00@ 6.00
Carnations	.75@ 1.00
Asters	1.00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@75.00
Gladioli	2 00
Tuberose stalks, single and double	5.00

MILWAUKEE, Aug. 11.

Roses, Beauties	5.00@20.00
" Brides, Bridesmaids	2 00@ 4.00
" Perles	1 00@ 3.00
" Meteors	2.00@ 4.00
" Kaserins	2.00@ 5.00
Carnations	.50@ 1.00
Sweet peas	.10@ .15
Gladioli	3.00@14.00
Smilax	12.50@15 00
Adiantum	.75@ 1.00
Common ferns	.20
Asparagus	50.00
Asters	.50@ 1 00

BUFFALO, Aug. 11.

Roses, Beauties	5.00@25 00
" Brides, Bridesmaids	2.00@ 6.00
" Meteors	2.00@ 6.00
" Perles, Niphetos	1.00@ 3 00
" Kaiserins	2.00@ 6.00
Carnations, ordinary	.75@ 1.25
" fancies	1.25@ 2.00
Lily of the valley	4 00@ 5.00
Smilax	10 00@15.00
Auratum lilies	8.00@10.00
Album roseum lilies	5.00@ 6.00
Asters	.50@ 1.50
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Gladioli	1.50@ 3 00

LOUISVILLE, Aug. 11.

Roses, Beauties, per dozen	.75@1.50
" Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" Kaiserins	2.00@ 4 00
" Perles	1.50@ 2.00
Carnations, fancy	1.25@ 1.50
" common	1.00
Mignonettes	.25
Smilax, per dozen	1.25@ 2.00
Adiantum	.75
Asparagus, per string	.50
Dagger ferns	per M, $1.00

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" Meteors, Kaiserins	1.00@ 4.00
" Bridesmaids	1 00@ 3.00
" Siebrecht Perles	1.00@ 3.00
Test cuts	1.00@ 3 00
Carnations, common	.40@ 1 25
Asters	1.00@ 2 00
Auratum lilies	6.00@ 8 00
Harrisii	3 00@ 4 00
Lily of the valley	3 00@ 5 00
Sweet peas	04@ .08
Gladioli	2.00@ 4 00
Adiantum	.50@ 1.00
Common ferns	.20
Smilax	8.00@10.00
Asparagus	40.00@75.00
Pansies	.25

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" Bridesmaids, Testouts, Brides	.50@ 3.00
" Morgans, Meteors	2.00@ 6.00
Carnations	.50@ .75
Lily of the valley	1.00@ 3.00
Sweet peas, per 100 bunches	.75@1.00
Smilax	8.00@10.00
Asparagus	40.00@50.00
Cattleyas	25.00@40.00
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Roses Beauties	5.00@25.00
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" Brides, Bridesmaids	1.00@ 4.00
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Lily of the valley	2.10@ 3.00
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" Kaiserins, Meteors	2.00@ 5.00
Carnations	.50@ .75
Lily of the valley, gladioli	2.00@ 4.00
Japanese lilies	4.00@ 6.00
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Cattleyas	35.00@40.00
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EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

MR. WM. F. DREER will arrive in Omaha Sunday, the 14th.

FURTHER advice from California points to a reduction in yield of onion over earlier anticipations.

Visited Chicago: Jos. H. Griese, of the Plant Seed Co., St. Louis; Fred H. Bateman, R. H. Shumway.

THE seed store of Oscar H. Will & Co., at Bismarck, N. D., was destroyed in the fire of August 8 which swept that town.

REPORTS from Southern Indiana indicate that redtop and orchard grass are damaged by heavy rains with blue grass half a crop.

A. J. M. JOINER expects to close the affairs of the western branch of the Jos. Breck & Son corporation and return to Boston by the end of August.

Seed Adulteration.

Under date of July 18 the Secretary of Agriculture issued the following circular:

The act of Congress making appropriations for the Department of Agriculture for the fiscal year ending June 30, 1899, under the heading "Botanical Investigations and Experiments, Division of Botany," contains the following clause:

The Secretary of Agriculture is hereby authorized to purchase samples of seeds in open market, test same, and when found not up to standard he may, at his discretion, publish the results of these tests, together with the names of the seedsmen by whom the seeds were sold.

This provision went into effect July 1, 1898.

In a circular dated May 10, 1898, was published a table of standards of purity and germination adopted as the basis of the decisions of the department. The following additional standards of purity only (freedom from foreign matter), are now submitted for the information of buyers and sellers of seed:

Scientific name of seed	Common name of seed	Percent purity
Agrostis canina. .	Rhode Island bent	50
Agrostis stolonifera . .	Creeping bent. . .	50
Agrostis vulgaris	Red top	*90
Alopecurus pratensis .	Meadow foxtail. .	80
Arrhenatherum elatius	Tall meadow oat grass.	85
Cynodon dactylon. . .	Bermuda grass. . .	95
Dactylis glomerata	Orchard grass	90
Festuca duriuscula . .	Hard fescue.	85
Festuca ovina	Sheep's fescue	85
Festuca rubra	Red fescue	80
Lolium Italicum.	Italian rye grass	95
Lolium perenne. . .	English rye grass	95
Poa nemoralis	Wood meadow "	80
Poa trivialis . . .	Rough " "	90

*This standard applies to "fancy silver" seed only. For seed sold in the chaff, *as such*, a purity of 60 per cent is required.

These standards are provisional only, and the right is reserved to raise or lower any of them in the future after due notice has been given, and provided it shall be found necessary. Germination standards for these varieties can not be given at present, hence the vitality of samples mentioned in this supplementary circular will not be taken into account unless evidences of serious fraud be discovered.

All of the provisions of the circular dated May 10, 1898, apply to the varieties herein specified.

California Notes.

The very severe heat has injured the onion crop in the Santa Clara valley. The harvesting of sweet peas is now well under way and, as was expected, the crop is the shortest in our history. Some varieties are, in fact, complete failures. They are in good demand and prices are ruling higher. Radishes are also in a bad way in some districts as also are some pieces of lettuce. A large acreage of spinach was also a failure.

Among the novelties in the seed line in this state we find the New Cupid sweet peas to be the most meritorious. The writer has seen the red, a lavender and a beautifully striped sort with enormous flowers. The red seems to be the most floriferous of the Cupid group thus far introduced, being a perfect mass of bloom. Vaughan's America has been brought up to a fine variety, having a much larger flower and being beautifully striped, resembling an American flag. It is one of the most attractive tall growing sweet peas in the way of novelties on the coast. The Blanche Ferry Cupid shows up well.

Lady Mary Currie, which Eckford sends out this year, appeared last season in Salopian. Prince of Wales appeared in Prince Edward of York and the Duke of Sutherland in Shahzada. The Duchess of Sutherland also we have selected from seed received from Eckford two years ago. Queen Victoria broke into two different colored seeds, viz., black and white. The white seeded variety seems to be the better but is rather hard to hold, it being very apt to revert to the black seeded variety. Two different flowers of the same type appeared in Prince Edward and several of the growers do not know which one is Prince Edward. METEOR.

Cincinnati.

QUIET REIGNS IN THE FLOWER MARKETS. —GOOD KAISERIN ROSES FROM NEW PLANTS.—GIESY GOES TO OMAHA.—NOTES.

There is really little going on and even funeral orders have been lost sight of the past week. There is considerable new rose stock coming in at present, with Kaiserin heading the list. Some excellent stock of Maids and Brides are coming from George & Allen.

The only one from here who will attend the Omaha convention, Mr. E. Giesy, will travel to Chicago and there join the delegation of that city. Please have an eye upon him.

Robert Betz was appointed head gardener at the water works greenhouses, Eden Park, on August 1.

H. D. Rohrer and son, of Lancaster, Pa., were here yesterday on their way to Omaha. H. SCHWARZ.

SOUTH OMAHA, NEB.—A. Delanney has opened a down-town store in the Ensor block, Twenty-fourth and K streets, and has fitted it up in fine style.

J. M. THORBURN & CO.

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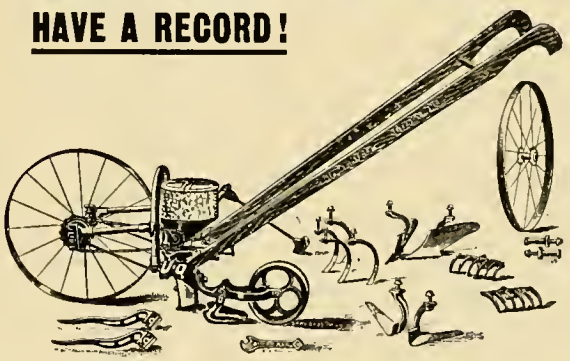
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A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

A. H. GRIESA, Lawrence, Kan., is the originator of a new raspberry called the Cardinal.

EX-PRESIDENT IRVING ROUSE, of the A. A. N., is summering at Gananoque, Thousand Islands.

MAHLONE TERHUNE, the New York fruit broker, reports that the exports of apples from August 7, 1897, have been 913,996 barrels, or only one-third the business of the preceeding year.

Tree Planting on Public Streets.

[Paper read by C. M. Loring, president of the American Park and Out-door Art Association at its recent convention at Minneapolis.]

Any city or village, however inexpensive its buildings, can be made attractive by planting trees and otherwise embellishing the public streets with borders of grass and shrubs and flowers, thereby giving them a park-like appearance which is very pleasing to the eye, and refining in its influence.

The pioneers of our New England cities and villages appreciated the value and beauty of shade trees, and as a result, we have such attractive cities as Bangor and Portland in Maine, New Haven and Hartford in Connecticut, Springfield and Salem in Massachusetts, where grand old elms spread their sheltering arms over modest homes. Why are these old cities called beautiful? What makes them so attractive to the tourist and the seeker of rest? It is not the architecture of their residences, as the majority of them are very plain. Their great attraction is the trees which border their streets. There are cities dear to the recollection of all sons of New England, where certain thoroughfares have a wide reputation for their attractiveness, on which there are no large estates, and very few fine houses; but the noble elms which form arches over the streets, and screen the imperfections of the houses, which seem half hidden in a border of waving foliage, form a picture which is photographed upon the minds of all who see it, and they exclaim: "What a beautiful city!" I was born and reared under these grand old elms, and much of the happiness of my life has been derived through my love and reverence for them.

A pleasant argument of the lurking instinct for arboreal life might be found in the fact that we like to give the name of roof-tree to our domicile, although the roof-tree may be brick or stone.

Thousands upon thousands of the sons and daughters of New England left their homes with the love of the old roof-tree in their hearts, and this love carried its influence wherever they made new homes, and the memories of the old, with the longing for the trees, resulted in the planting of streets and roadways which are the pride of many cities in our middle and western states. One of these daughters writes: "In memory's chart of the little world of childhood, does not some best beloved tree mark the center thereof, and is not the tree's morning or evening shadow the radius of the golden day's round?"

Most children are born with a love for flowers and trees, and all that is beautiful in nature, and even when reared under the depressing influences of the tenement houses of large cities, the oyster cans and old bottles on the window ledges filled with the growing plants testify that this love is difficult to crush out of the hearts of the unfortunates. But, alas! too many children grow up without the refining influences of nature's floral gifts, and as a consequence their own natures are dwarfed and their lives blasted.

"God help the boy who does not know
Where all the woodland berries grow,
Who does not see the forest's glow
When leaves are red and yellow,
Whose childish feet can never stray
Where nature does her charms display—
For such a helpless boy, I say,
God help the little fellow."

Trees are not only for ornament and shade, but for purifying and cooling the air in summer. The exhaling power of leaves has been most carefully investigated, and the most careless observer has noticed its effect in cooling the air when passing through a wooded road on a warm day in summer.

It is also a well known fact that trees radiate heat in winter, and that the more there are in a neighborhood the more equitable is the climate. It is as much the duty of city and town authorities to plant trees as it is to build sewers, for both are sanitary measures, and it ought to be a matter of pride to the citizen to see that his street is not only healthful but beautiful.

Trees, as a rule, have been planted too thickly in most of our older cities. Large elms and maples are frequently seen crowded together, ten and twelve feet apart, and as a consequence they are misshapen and form a shade so dense that neither sun nor air can reach the houses. Experience has proven that it is a mistake to plant four rows of trees on any street that is less than one hundred feet in width, and that next to the folly of not planting at all is that of over-planting. Human beings require sunshine and air, but in many streets in our older cities these are excluded through the over-planting of trees, or the failure to remove them when they have grown so large that their top branches intertwine.

The American elm is the most beautiful tree for street planting, but in some localities it is so infested with insect pests that we should encourage the selection of other varieties when practicable. In Central New York the white maple is extensively used, and if it be given the proper care when young, it makes a noble tree at maturity. In many localities the sycamore is a great favorite, but it will not grow in the northwest. The linden, hackberry, Norway maple and the white ash are fine street trees, especially for narrow streets.

There should be a definite plan for all municipal improvements, and in the department of tree planting this can only be obtained through a commission having absolute authority to plant, prune or remove trees whenever or wherever, in its judgment, it is deemed advisable.

The Board of Park Commissioners of Minneapolis has authority under the park act to plant trees on any street and assess the cost of the same on abutting property. This authority, as a rule, is not exercised except when petitioned to do so by a majority of the residents of the street. The cost of planting and caring for the trees for three years is about $5, but this sum is undoubtedly under, rather than over, the actual expense. The city being underlaid with gravel, it is necessary to remove at least five yards of this material, which is replaced with the same quantity of rich loam in which the tree is planted. It would be a paying investment for the owner of the property if double the amount of loam were furnished and charged for. Each tree is protected by a guard, which serves the double purpose of protecting the bark from the rays of the sun and from the teeth of the horses. Many of the streets have been improved with uniform rows of trees, and the number of petitions for thus improving thoroughfares increases each year.

Some of the older trees which were planted before the care of this work was assumed by the Board of Park Commissioners show the usual haphazard way in which planting was done when each owner of a 40-foot lot exercised his own will. Some planted four or five trees, each of a different variety, and never cared for them. Others did not plant any, and a few set and cared for trees which have grown to be fine specimens of their kind.

Up to the time the park commission became the custodian of the street trees, more had been planted and had died, either through ignorance in planting, or through neglect, than were then growing. The loss since that time has been less than two per cent.

A commission having charge of the trees in the city of Washington has absolute control and care of them. It is decided to use a certain variety on a street, that variety is planted and there is no appeal from its decision. As a result, there is no city within my knowledge having so many unbroken rows of healthy trees.

Other cities in this country have undertaken the control of street ornamentation with great success, and it is to be hoped that all will follow their example. As a rule, the roadways on our residence streets are too wide and there is not space enough given for trees and other ornamentation. Fine effects are produced on an eighty foot street by making the roadways thirty feet wide, leaving twenty-five feet inside the curbing on each side, six feet of which next the lot line is for a walk and nineteen feet for grass and flower beds, or groups of ornamental shrubs, and shade trees planted from forty to fifty feet apart.

Many object to having so much space between the trees when they are young, and this accounts for their crowded condition in many of our older cities. To overcome this, some writers recommend planting rapid growing varieties between the more slow growing, which are to be removed when the branches of the permanent trees have grown to fill the space.

Another plan which I have seen in an eastern city gives a park-like appearance which is very pleasing. This gives a sidewalk next to the lot line six feet in width, a planting space for grass and trees six feet, two roadways eighteen feet wide and a center planting space of twenty feet filled with grass and shrubs, or grass and beds of flowers. There is no necessity for a roadway of over thirty feet in width on any residence street of sixty feet; one that is wider is entirely out of proportion.

There is not enough attention given to the ornamentation of streets. There is no reason why the residence portion of our cities and villages should not be made as attractive as a park. A few ordinances regulating the alignment of buildings, the setting of trees and care of planting spaces, would accomplish this desirable result. But, better yet, by the education of the people through such organizations as the Village and Neighborhood Improvement Association, the Brooklyn Tree Planting and Fountain, and the Park and Outdoor Art Association.

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SUPPLY IS EQUAL TO THE DEMAND.—ROSES ARE POOR AND GLADIOLI CHEAP.—LITTLE BUILDING IN SIGHT.—A HALF DOZEN FOR OMAHA.—NOTES.

There is very little stirring in a business way at present and flowers are sufficient in supply for all demands, which are largely limited to occasional funeral orders. Roses are rather poor in quality and wholesale at the prices prevailing for some time past.

Gladioli are to be had in any quantity and are exceedingly cheap as they usually wholesale at about $1 a hundred and and retail at 25 cents a dozen. Asters are being offered in fair quantity and quality; the writer has seen none of the Semple strain as yet, however.

There is very little building being done this year. H. Graham & Son are putting up two houses for carnations, in addition to what they already have.

The present outlook for attendance at the Omaha convention does not indicate a very large delegation from this city. A half dozen will probably just about express the number of the faithful who will journey to that far country beyond the rolling Mississippi.

A. H. Graham, who has been absent from the city for several weeks, returned lately. A.

Select Ferns.

One of the most distinct and beautiful of the large fronded maidenhairs is Adiantum Peruvianum, which requires stove treatment. Raised from spores and potted in a compost of loam, peat, and leaf-mold, with plenty of sand added, it grows freely. The matured fronds are of a deep green, which makes a good contrast with the young ones, these having a soft bronzy tint. Though not yet grown for market purposes I believe if well done many of our florists would use it for specially choice work, as next to A. Farleyense it is the most effective of the adiantums.

Acrostichum drynarioides is one of the most distinct ferns we have. I believe I have previously alluded to this as one which may be raised from spores. It takes a considerable time to establish plants large enough to bear the fertile fronds, which add much to its beauty. It is a native of the Solomon Islands and Penang, and succeeds best in a stove temperature, with plenty of pot room and a rough, porous compost. Grown in a suspended basket it makes a fine specimen.

Davallia Assamica is a very distinct species with fronds from six to eight inches long and two to three inches wide and of a dark bronzy green color. The rhizomes, spread freely and are covered with silvery grey scales, changing to a darker color with age. It makes a fine basket fern and may be readily increased by division, but I have not yet seen a batch of seedlings. The plant was accidentally introduced among an importation of orchids a few years ago, at which time I believe there were no other living specimens in cultivation.

Platycerium alcicorne majus differs from the type in having broader fronds. The basal or shell-like fronds are also much larger. Grown on cork it makes a fine ornament for the wall. I think the platyceriums ought to come into more general use for decorations. They may be hung on pedestals or against a wall and are most attractive. When exhibiting ferns I find these always attract much attention, and as they last so well in a dry atmosphere they may be strongly recommended. A. HEMSLEY.

V. M. & W.
Wholesale Florists,
47 Wabash Avenue, CHICAGO.



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OUR CUSTOMERS
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HOW? A TRIAL ORDER WILL TELL YOU WHY?
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Wholesale Growers OF Cut Flowers

Roses and Carnations growing under **600,000 Feet of Glass** enable us to fill orders for any quantity of stock.

Our CARNATIONS this year will include the standard varieties and the novelties in unlimited quantity and unsurpassed quality.

REGULAR ORDERS WILL RECEIVE SPECIAL ATTENTION.

Reinberg Bros., 51 Wabash Ave., Chicago.

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A large addition to our greenhouses this year will give us enough

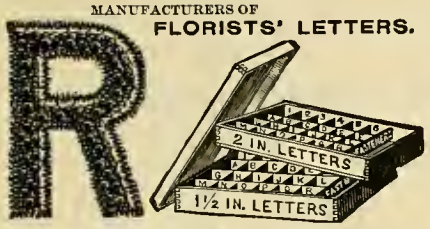
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JOHN H. DUNLOP,

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Los Angeles.

THRIP RAVAGES THE CARNATION CROP.—NURSERIES SHIP MANY ORANGE TREES.—FEDER HAS A NEW CENTAUREA.—CALIFORNIA BULBS BEING SHIPPED.—THE CROP IS SHORT.—JOTTINGS.

The demand for flowers has kept up so far this season better than the florists expected. At times it has been difficult to obtain sufficient choice flowers to fill orders. Especially was this the case a short time ago, when a severe attack of thrip ruined carnation blooms as rapidly as they opened. The growers at Redondo, the only place where carnations are good all the year around, suffered more from thrip this year than ever before, and for some weeks less than one fourth of the crop was salable. The recent foggy nights and mornings have caused the almost entire disappearance of the insect pest.

Speaking of insects, which in this state multiply every month in the year, the county board of horticultural commissioners is doing good work in educating the people on methods of destroying the pests, as well as destroying all infested trees. In one district 7,000 trees have been cut down and burned. This effective work is being done all over the state.

The nurseries in the Pasadena district report having sold and shipped about 10,000 orange trees this season, most of them going to the central and northern parts of the state. The local planting consumed about 2000 trees.

Henry Feder, of the Redondo Nurseries, has a profitable monopoly in the way of a new centaurea that originated on his place two years ago. He has refused all offers for plants and seeds and is now supplying all the stores with the beautiful blooms, which are in great demand.

Jacob Dieterick, Twelfth and Wall streets, is making some substantial improvements in the way of lath houses, in which he will grow ferns and asparagus. He carries the largest stock of these plants in the city.

Harvesting, curing and shipping callas and freesias is now in full progress. There are plenty of callas of all sizes, but most of the freesia growers report not enough bulbs to fill orders. Rafferty, of Santa Ana, and Compere, of Wilmington, have sold all they have. Brazee & Co., of Wilmington, refused all early orders and now have several hundred thousand bulbs to put on the market. The Germain Fruit Company and E. R. Meserve, are forwarding big lots of callas.

Howard & Smith have faith in dahlias as a coming flower and are now exhibiting some new varieties, imported direct from England and Germany.

J. Aug. Kusche, formerly foreman at Capt. F. Edward Gray's Ingleside nurseries, is a practical taxidermist and is kept busy with that kind of work.

The capet bedding in the city parks has been completed, requiring 120,000 plants. This style of work is to be seen in six different parks in various parts of the city. The Germain Fruit Company secured the principal order for the Dutch bulbs for use in the city conservatories.

Capt. F. Edward Gray has sold his entire crop of California grown Harrisii lilies at satisfactory prices. He has a grand display of seedling gladioli in full bloom at his nurseries; one, a so-called blue, is most distinct.

The Southern California Floral Company has a man for manager now, Morris Golderson having celebrated his twenty-first birthday early this month.

D. R. W.

Herbaceous Pæonies...

T. C. THURLOW, The Pæony Specialist.

Will have a Trade List prepared early in September, naming lowest wholesale prices for over 150 of the choicest varieties obtainable in this country or Europe. Also an immense stock of *Hardy Perennial Phlox, Iris Kæmpferi, etc.*

ADDRESS T. C. THURLOW,

WEST NEWBURY, MASS.



IF YOU HAVE FAILED

to secure a fine stock of **GLADIOLUS SPIKES** write us for prices, etc. We can suit you in every particular.

NOTHING FINER OR MORE DURABLE FOR SUMMER DECORATING.

Cushman Gladiolus Co.

EUCLID, OHIO.

Dreer's Exhibition OF DECORATIVE PLANTS....

will be found in the Exhibition Hall at the **Florists' Convention,** Omaha, Neb., August 16 to 19, inclusive, 1898.

This exhibition will be an unusually interesting display of **Palms, Ferns, Araucarias, etc.,** complete and comprehensive, showing the quality, varieties and sizes which we grow in large quantities at our Riverton Nurseries.

Our representatives will be in attendance and pleased to show stocks, furnish prices and give all information desired.

Visitors to the Trans-Mississippi and International Exposition should not fail to see our exhibit of **Aquatic Plants** in the especially prepared ponds on the grounds.

Dreer's Quarterly Wholesale Price List should be received regularly by every Florist. If it does not reach you, kindly advise us.

Henry A. Dreer, 714 Chestnut St. Philadelphia, Pa.

Bulbs

. . . FOR FORCING.

Our motto "All Florists' Stock in Season," is steadily kept. We are now delivering Lilium Harrisii, Roman Hyacinths, Freesias, Paper White Narcissus, etc. This stock will be followed rapidly by a full line of All Fall Bulbs, Dutch, French and German, with Japan Lilies and Lily of the Valley, in select forcing grades.

Mastica,

CANE STAKES,
GLAZING POINTS.

Raffia, Sphagnum Moss, Wire Work, Tissue Paper, Doves, Wheat Sheaves, Waxed Paper, Rubber Hose, Tin Foil, Immortelles, Letters, Tobacco Extract, Fertilizers, Nicotine, Putty Bulbs, Tobacco Stems in Bales, Galvanized Wire Stakes, Sulphur, Paper Boxes, etc., etc., all at the closest jobbing prices which quantity orders and cash payment secure.

Greenhouse Plants

Our Greenhouses at Western Springs, Ill., are filled to overflowing with the most salable sizes of Palms, Ficus, Asparagus, Ferns and other plants, including all the best novelties worth pushing.

We extend to all visitors to the Convention a cordial welcome to visit us, either on their way to or returning from Omaha.

VAUGHAN'S SEED STORE,

NEW YORK, 14 Barclay St. CHICAGO, 84-86 Randolph St.





A Profitable Side Crop.

The tomato is one of the profitable side crops for the florist if properly handled. An important item in proper handling is to start right by getting proper seed. Experience has proven the "Lorillard" the best forcing variety so far; but much of the seed now on the market is not carefully selected as to type. I have taken pains to find something free from this objection and have pleasure in offering

Lorillard Forcing Tomato...

Specially saved for my trade by the originator, Mr. Jno. Gardner. Pkts., 25c. 50c and $1.00. free by mail. Bulk price on application.

Sutton's Best of All Forcing Tomato

Has done remarkably well with those who tried it the past season. I do not know how it is for outside, but it's a dandy for forcing; large, round, deep scarlet, very prolific. Pkt. 40c. mailed free. (No bulk of this to offer at present). Give this new sort a trial. Stamps accepted for small amounts.

GEORGE C. WATSON
Seedsman.....
Juniper & Walnut Streets,
PHILADELPHIA

NEW ROSE CLIMBING "Royal Cluster"

A hardy, white, climbing cluster rose of strong, vigorous habit, (Hermosa and Dawson); parent plant has borne enormous clusters of double white roses, slightly tinted with rose when breaking. Altogether a distinct and remarkably fine rose.

Strong plants from 2½-inch pots.....$ 6.00 per 100.
" " " 3 " " 10.00 per 100.

ORDER NOW

Ready for delivery after January 1, 1899.

THE CONARD & JONES CO., WEST GROVE, PA.

CLEMATIS, fine large stock of leading kinds, $20.00 per 100.
PÆONIES in splendid assortment, $8.00 per 100.
SMILAX, 3-inch, strong, $3.00 per 100.
DOWNING GOOSEBERRIES, strong, one and two year; Red Jacket, ditto. Write for prices.

F. A. BALLER, Bloomington, Ill.

ASTILBE CHINENSIS (Spiraea) First-Class Certificate Mass. Hort. Society.....
Three sizes, fine stock, $20, $15, $10 per 100.
We recommend September and October planting for..... HARDY HERBACEOUS PERENNIALS IN VARIETY.
Price list and descriptive catalogue on application.
REA BROTHERS, Norwood, Mass.

CHINESE PRIMROSE
. . . SEED . . .

Greatly improved and well known to be of the very finest grown. Packets put up specially for florists, of best single and double varieties 400 seeds $1.00; ½ pkt., 50c. Not compared with cheap imported seed.
CINERARIA seed of large flowering dwarf varieties in choicest mixture pkt., 25c; 6 pkts., $1.00
PRIMULA OBCONICA, pkt., 1000 seeds, 35c.
PRIMULA FLORIBUNDA, fine yellow, pkt., 25c.
JOHN F. RUPP, - Shiremanstown, Pa.

Princeps Daffodil.

American grown bulbs, first class in all respects, 1000, $10; 250 at thousand rates.

M. CRAWFORD, Cuyahoga Falls, O.

Grand Rapids.

PLANTING IS ABOUT COMPLETED.—GREAT INCREASE IN THE NUMBER OF VIOLETS GROWN.—ROSES AND CARNATIONS ALSO SHOW AN INCREASE.—GOOD SEASON ANTICIPATED.—NEWSLETS.

Trade has been very quiet of late. The quality of roses and carnations is improving, but first-class flowers are still very scarce. We had a fine rain this week and carnations and all field plants are growing finely.

Planting is about over, and there will be at least 25% more roses, carnations and violets grown this year than last. Violets are looking exceptionally fine this year. Crabb & Hunter have built a new range of four houses for this flower in addition to the two large houses they had in operation last year. Henry Smith has five houses devoted to them; the Grand Rapids Floral Company, Wealthy Avenue Floral Company, Hopp & Lemke, J. A. Creelman and Wm. Cunningham all have more space for violets than they had last year, and from present prospects this town can supply the entire west this winter.

The Grand Rapids Floral Company, Crabb & Hunter and Henry Smith have each rebuilt several houses and are making extensive improvements in their establishments. F. A. Chapman is building a new house and is rebuilding others. Most of the craft anticipate a prosperous season.

The Grand Rapids Floral Company had the palm swindle played on them the other day. Most of the plants were recovered, however, and the people in that section are not looking for cheap palms at present.

Wenzel Cukierski, our park superintendent and city florist, has very much improved the parks in every respect this year. We think him the right man in the right place, and are glad to know that the city also recognizes his worth.

HENRY SMITH.

FRESH
Mushroom Spawn.

The BEST and most productive type of English Spawn. Quality and condition guaranteed.

G. H. R. is prepared to ship large quantities throughout the coming season. Lowest terms upon application.

G. H. RICHARDS,
MANUFACTURER,
124 Southwark St., **LONDON, S. E.**

Will unknown correspondents please enclose London references.

ASPIDISTRA **Lurida fol. var.** just now in good condition without leaves, good roots with sprouts, $6 per 100; sample, 90c per doz. postpaid. **Canna "Florida"** for trial 10 cents.

Asparagus Sprengerii Seed.... { 100, $1.00 / 1000, 8.00
Fresh from the vines..... {

Pampas Grove Nurseries, Greenland P. O., Florida.

Asparagus Sprengerii
SEEDLINGS ALL SOLD.
Fine Plants, $8.00 per 100. Sample by mail 10 cents.
American Rose Co., Washington, D. C.

Mention American Florist.

A TESTIMONIAL FROM MR. GARDNER.

STOKE-POGIS, PENN., July 18th, 1898.

I have been using Mr. George C. Watson's Diamond Brand "W. P." Mushroom Spawn for the past ten years and have always found it *good*, being uniformly well-spawned, fresh, and very prolific. There is a great difference in spawn, and it is very important that the grower of this crop should start in right by getting a good article. I have no hesitation in recommending the "W. P." brand offered by Mr. Watson as the best I have been able to find. It has given me splendid results. JOHN G. GARDNER, Superintendent Stoke-Pogis Nurseries.

(Mr. Gardner is a grower of Mushrooms for the market of many years standing—famous all over the country by his success with this crop and I am justly proud of the above testimonial. G. C. W.)

Watson's English Mushroom Spawn, the W. P. Brand

This brand of spawn is always fresh and full spawned. It is the finest quality of brick or English spawn and is made specially for the most critical growers by the best maker in England. Many of the largest growers use the "W. P." brand exclusively and give the most flattering reports of its reliability and productiveness. Growers of mushrooms are cautioned not to use any other spawn, as the success of mushroom culture depends to a large extent on the quality of the spawn used. Old or poorly charged spawn is dear at any price, and there is no necessity for using such when the "W. P." brand can be had at a reasonable figure. Monthly importations arrive in this country from September to April, fresh from the maker in England, thus guaranteeing spawn of absolutely unsurpassed freshness. A brick or cake of spawn weighs about 1¼ lbs., and will plant a space two feet by three feet, that is, 6 square feet of surface, and the quantity needed for any given space may easily be calculated by this rule.



.. .. PRICE

Per 100 Pounds..... $7.00
Per 50 Pounds..... 3.50
Per 25 Pounds..... 2.00
Per 10 Pounds..... 1.00
Sample Cakes (1¼-lb.) 15 cents each.

☞ If wanted by mail add 8 cents per pound to price. Special low rates for buyers of large quantities. Send for circular.

HOW TO GROW MUSHROOMS

My 22-pp. booklet on M. Cult. *free to buyers* or intending buyers of spawn; to others, 10 cents. New supplement on out-door culture by JNO. G. GARDNER, included. I can also furnish:

Robinson's Mushroom Culture, 50c
Falconer's " " $1.50

W. P. BRAND MUSHROOM SPAWN

G. C. WATSON

IMPORTER OF BULBS FOR FLORISTS, FANCY GRASS SEEDS, FIELD & GARDEN SEEDS, FLORISTS FLOWER SEEDS

WHOLESALE SEEDSMAN AND COMMISSION MERCHANT

TRADE W. P. MARK.

CLAY'S FERTILIZER, BIRD SEEDS.

Juniper and Walnut Streets,

PHILADELPHIA, PA. U.S.

Walker Fertilizer Co.

MANUFACTURERS OF.....

EXCELSIOR BRAND

SOLUBLE FOOD FOR HOUSE PLANTS

Also All Grades of Fertilizers

CLIFTON SPRINGS, N. Y.

An... Unsolicited Opinion

Our correspondents will subserve their own interests by using this article.—American Journal of Health.

Seed Stores and Flower Stores

can profitably handle our ODORLESS PLANT FOOD. Write for testimonial leaflet and free sample. 100 per cent. profit guaranteed...

We furnish **Pure Bone Meal** for florists' use. Guaranteed analysis.....

Ammonia..... 5 per cent.
Bone Phos.....55 per cent.

Write for samples and prices.

FREESIAS. We have nearly a half million fine Flowering Bulbs, and are prepared to fill all EARLY orders promptly. We guarantee FULL count, FULL size thoroughly cured Bulbs, ABSOLUTELY FREE from disease.

We do not quote such unknown sizes as "Mammoth," "Select," 1st size, etc., etc., but give actual measurement, so you may know what to expect.

Price including free delivery anywhere in U. S. A.:

¼ to ⅜ inch $2.50 per 1000
⅜ to ½ " 3.50 per 1000
½ to ¾ " 5.00 per 1000
¾ to 1 " 9.00 per 1000

Order To-day Direct from the Growers,
C. A. BRAZEE & CO., Wilmington, Cal., U. S. A.

SAMUEL S. PENNOCK

Wholesale Florist

1612=14=16=18 Ludlow St. Philadelphia

Important Announcement:

HAVING purchased the adjoining property we are adding the same to our already commodious store and shall erect therein a complete

COLD STORAGE PLANT....

and rooms especially fitted up for keeping and handling Cut Flowers in the best possible manner. With these additions we will have the best equipped wholesale establishment in the United States.

FOR THE COMING SEASON WE OFFER AN IMMENSE STOCK OF ALL THE CHOICEST VARIETIES OF

Select American Beauties
Number One Carnations
Finest Valley and Violets

AND EVERYTHING ELSE THE BEST IN SEASON.

SHIPPING FACILITIES UNSURPASSED. Packing is a special feature and all orders receive the greatest care so that flowers will arrive in the best condition at all seasons.

Our new style extra light shipping boxes reduce express charges and everything is done to command and hold the good will of our customers.

NOTE: For Sale Cheap, Three Large Refrigerators, practically new. Sizes 9½x8x4, 12x4½x10½, 12x8x11.

Harrisburg, Pa.

After a drought of six weeks Harrisburg was visited by a very welcome and refreshing rain, which started a good growth for the carnations and prospects are that they will make good plants for the winter, but close attention is necessary in keeping the cultivator going and pinching off the tops. Chrysanthemums and violets are looking splendidly and the promise is that we will have a good crop this season.

The Paxton Greenhouses force is kept very busy replacing the glass that was destroyed by the heavy hail storm that visited this vicinity on May 18 Ten thousand lights were broken and but 6,000 have as yet been restored. Mr. Taube, the proprietor, has met with misfortunes enough within the last two years to drive many men out of the business. The great cyclone of October 19, 1897, caused much damage to his greenhouses, blowing down one and breaking hundreds of lights in the others. His loss was $1000. He has not yet lost courage, but with his ambition and push will soon open one of the largest stores in Harrisburg.

Mr. Fennichel was also a sufferer from the last storm, his loss amounting to $200, and Mr. Desberas lost so heavily that he will discontinue business.

The Capitol building, which was distroyed by fire two years ago, is now in progress of rebuilding. The greenhouses belonging to the capitol have been remodeled and now present a fine appearance. Mr. Laben, the head gardener, has his rose houses looking exceedingly well and deserves credit for the way in which his lawn and flower beds are kept. The Capitol Hill has been greatly improved by the addition of a number of large palms. Mr. Paget, head gardener at the state asylum, took me into his rose houses, which are the finest I have ever seen, being filled with Kaiserin, Perle and American Beauty. C.

EUCHARIS AMAZONICA.

Make an offer (cash only) for our surplus.

150 BULBS 1½-inch Diameter.
200 " 1-inch "
300 " ½ to ¾-inch "

A. M. & J. B. MURDOCH, Pittsburg, Pa.

CALADIUMS.

Positively last call for 2½-in. plants of FANCY LEAVED CALADIUMS. Plants have grown but price is the same. 2½-inch pot plants, 3 to 5 leaves, from $6.00 to $20.00 per 100. Worth double the money.
Address, until stock is exhausted,

F. J. ULBRICHT,
Lock Box 655. ANNISTON, ALA.

Dutch Bulbs

HYACINTHS, TULIPS, CROCUS, ETC.
RUDOLPH VAN TIL & CO.,
Hillegom, Holland.
American Representative
L. C. BOBBINK, Rutherford, N. J.
ASK FOR CATALOGUE.

BULBS For FLORISTS.. For SEEDSMEN.

VAN ZANTEN BROTHERS,
HILLEGOM, - HOLLAND.

Bunyard's Florists' Cabinet

(E PLURIBUS UNUM.)
PATENT APPLIED FOR.



(FROM THE FLORISTS' EXCHANGE.)

"Anybody connected with a flower store will understand the gap this handy 'carry-all', so to speak, will fill, not only as a labor-saving device, but a money-saver as well. Who has not noticed the 'flotsam and jetsam' on the counters of our stores—wires, toothpicks, strings, etc., all higgledy-piggledy, contributing towards waste and loss of time. The old adage 'a place for everything and everything in its place' should be no more fitting than when applied to a florist's store."

DESCRIPTION.—The article in question is made of heavy tin and japanned in white, with gold trimmings. The three cylinders at the back, 9x4 in diameter, are for holding the long bouquet sticks, and stub wires; next come two cylinders 6x4, one water-tight for the sprinkler, the other for shorter wires or sticks; in the center is a receptacle for string and above a wire to carry a reel of silkaline or whatever may be used, and a card case. In the front are four compartments, 7x3 respectively, for wire, pins, toothpicks, tinfoil, etc., the whole being 12 inches square.

Price, $3.00 each, two for $5.50. Also made with one drawer for Florists' Letters, $4.00 each; with two drawers, $5.00 each. Terms Cash or C. O. D.

HARRY A. BUNYARD, Growers' and Mfrs. Agt. 105 & 107 Hudson St., **New York City.**

Headquarters for.....

Bulbs and Plants

C. H. JOOSTEN, Importer,

Represented at Omaha S. A. F. Convention by MR. J. E. KILLEN.

193 Greenwich St., NEW YORK.

OUR NEXT ISSUE will contain a full report of the Omaha Convention. Advertisements for same should reach us not later than August 18.

Wm. C. Smith,

WHOLESALE FLORIST.
1604 Ludlow St., PHILADELPHIA.

My business the past season has outgrown the old quarters, 40 S. 16th St., compelling removal to the above new address, where I will have greatly improved facilities, having four times the room, and all on the first floor. My stock of choice cut flowers will be largely increased by the addition of new consignors and will be second to none in this city.

High Grade
Middle Grade } Flowers
Low Grade

TO SUIT ALL THE REQUIREMEMTS OF THE BUSINESS.

FIRST-CLASS **Beauties, Tea Roses and Carnations** MY SPECIALTY.

QUOTATIONS CHEERFULLY FURNISHED. CONSIGNMENTS OF GOOD STOCK SOLICITED.

LONG DISTANCE 'PHONE.

Edward Reid,

WHOLESALE FLORIST,
1526 Ranstead St., above Chestnut,
PHILADELPHIA.

My business the past season largely exceeded my expectations. To meet this rapidly growing trade I have added a number of growers of select stock to the list of consignors and will be prepared to meet all emergencies.

Choice American Beauty and Tea Roses, Carnations, Violets

AND SELECT STOCK OF ALL KINDS IN SEASON FURNISHED AT THE SHORTEST NOTICE.

Only five minutes to express terminal stations. My careful packing insures safe delivery. Write me for prices at any time and I will guarantee satisfaction.

A FEW MORE CONSIGNORS OF CHOICE FLOWERS ONLY SOLICITED.

Chrysanthemum Notes.

Just at this time all of the old and a few new ideas in staking are brought out for the guidance of young florists and the assistance of some of the older hands who may be ambitious to improve on their former methods. I have tried for several seasons a simple idea which I find works nicely. Use a cane stake about half to five-eighths of an inch thick and have it at least as high above the pot as your plant may grow. Paint a dark green color and stick firmly as near the center of the pot as possible without injury to the roots of the plant. Use no string of any kind for tying except, perhaps, a piece of raffia near the pot to make the main stem firm. Have a lot of straight pieces of galvanized wire about the size of a knitting needle and a sharp brad-awl the same size as the branches of the plant; pierce the cane horizontally, being careful not to split it, and insert a wire reaching to the extreme diameter of the bush. With a pair of wire nippers cut the wire about an inch from where you wish your flower stem placed and bend a loop in the end of it a little larger than the stem. Spring this open and around the stem. Choose a shoot on the opposite side of the plant and hold that in position with the other end of your wire. Any number of wires can be passed through your stake. You will find the friction of the wire in passing through the cane will be sufficient to prevent its moving laterally, and the slightest bend of a wire, even after the plant is in bloom, will hold a flower just where it is wanted. In a plant of good foliage the wires will be invisible, and the stake can be cut off just below the foliage, when the plant has attained its growth. F. P. DAVIS.

Decorative Plants...

Over 50,000 in exceptionally fine condition, as good as any, grown cool, their value will double until next Christmas, if shifted now. Height of plant is given above pots in natural position.

	Pots	Le'v s	Inch high	Each	Doz.
Kentia Belmoreana	5	6	24	$1.00	$10.00
Latania Borbonica	6	7	20-22	.65	7.00
" "	5	6	15-18	.35	4.00
" "	4	5	15	.25	2.50
Areca Lutescens	5	5	25	.50	5.00
Chamærops Excelsa	6	9	15	.50	5.00
Corypha Australis	4½	6	18	.20	2.00
Seaforthia Elegans	3½	5	24	.20	2.00
Cocos Weddeliana	2¼		5	.10	1.00
" "	3		12	.15	2.00
Pandanus Utilis	5	18	18	.35	4.00
Dracænas, Lindeni and Massangeana	4			.50	5.00
Dracæna Fragrans	5			.35	4.00
Ferns, Nephrolepis Davallioides Furcans	5	20	18	.50	5.00
"	6	30	24	.75	8.00
Marantas, 4 fine vars.	4			.25	2.50
Dieffenbachias "	3½			.25	2.50
Anthuriums, f'ney l'v'd	4			.35	4.00
Caladiums "	3			.15	1.50

Ferns, 6 var., best for fern dishes, 2½-in. pots, 50c a doz. Pteris Tremula, 4-in. pots, $1.25 a doz. Fittonias and Selaginella Emiliana, for pans, 50c a doz.

Begonias, in good assortment, 3 and 4-in. pots, 50c and 75c per doz.

Nepenthes, $1.00 each.

Platyceriums, or Elk Horn Fern, 75c and $1 each.

Orchids, Lælias and Dendrobium Nobilis, etc., 50c to $1.00 each.

I keep on hand also a large assortment of other ornamental, blooming and bedding plants, hardy and tender Vines, Shrubs, Evergreens, Perennials, Roses, etc.

To help pay Express Charges, I add plants liberally, according to distance of customer.

Cash with order please, or will exchange for a lot of sound Calla dry roots.

N. STUDER,

Anacostia P. O., - WASHINGTON, D. C

Palms, Etc.

HARDY, STOCKY AND PERFECT IN EVERY RESPECT. THE BEST AT FAIR PRICES.

ARECA LUTESCENS—Many sizes, from strong young plants, at $6.00 per 100 to elegant specimens. An especially fine stock of strong, bushy plants, from 8-in. pots at $1.25, $1.50, $2.00 and $2.50; 9-in. at $3.00; 10-in. at $5.00, $6.00 and $7.50; 12-in. at $10, $12 and $15 each.

LATANIA BORBONICA—2x3-in. pots at $4.00; 3-in. (very strong) at $10 per 100; 4-in. at 25c; 6-in. 50c and 75c; 8-in. at $1.50 and $2 00 each.

KENTIA BELMOREANA AND FORSTERIANA—3-in. pots at 25c; 4-in. 50c; 6-in. at $1.00, $1.25 and $1.50; 8-in. at $2.00, $2.50 and $3.00 each.

COCOS WEDDELIANA—2x3-in. pots at $10; 3-in. at $15 per 100; 4-in., several plants in a pot, very bushy, at 50c each.

LIVISTONA ROTUNDIFOLIA—4-inch pots at 50c; extra strong at 75c.

PANDANUS VEITCHII—6-in. pots at $1.00 and $1.50 each.

PANDANUS UTILIS—4-inch pots at 25c; 6-in. at 50c and 75c; 8-in. at $1.25 each.

FICUS ELASTICA—6-inch at 50c and 75c each.

FICUS ELASTICA VAR.—6-inch at 75c and $1.00 each.

DRACAENA SANDERIANA—Strong, 3-in. pots at 30c each.

PHOENIX RECLINATA, P. RUPICOLA, ETC., ETC.

PRICE LISTS GIVING MEASUREMENTS, ETC., ON APPLICATION.

CHAS. D. BALL,

Mention American Florist. **HOLMESBURG, Phila., PA.**

Kentucky Stock!



FREE to ALL.

Our Illustrated Catalogue of ROSES, PLANTS, SEEDS, BULBS and ROOTS, GRAPEVINES, SHRUBS, ETC., will be mailed FREE to all applicants. It will pay to examine it. 60 greenhouses. Goods guaranteed to be first-quality. Established 1850.

NANZ & NEUNER, Florists
Louisville, Ky.

		Per 100
Fuchsias,	single in assortment, 2-in.	$3.00
"	double " "	3.50
Hibiscus,	single and double, 2-in.	3 00
"	in assortment, 3-in.	5 00
Jessamine	Grandiflora, 2½-in.	3 00
"	Grand Duke, 4-in.	8 00
"	Maid of Orleans, 3-in.	5.00
"	" 4-in.	8 00
Rhyncospernum Jasminoides,	2-in	3.00
"	4 in	8.00
Bouvardias	Donb'e Flaveseens, 2-in.	
"	The Bride, 2-in	3.00
"	Vreelandii, 2-in.	
"	Pres. Cleveland, 2-in.	
"	Rosea Multiflora, 2-in.	

Also a fine stock of Field Grown Roses and Carnations.

PRICES ON APPLICATION. ADDRESS

NANZ & NEUNER, = Louisville, Ky.

CHINESE PRIMROSE PLANTS.

STRONG and well grown, ready for 3-inch pots. Acknowledged by Florists throughout the U. S. and Canada as the finest strain of large flowering Primroses to be had. Not grown from cheap imported seed, but from seed of our own growing, which has won a national reputation for superiority. Single varieties, in finest named colors, $2.50 per 100; $20 per 1000. Double white and red, $4.00 per 100.

Cash with order, or one-half cash and balance C. O D.

Adams and U. S. Express.
Extras added to help pay the expressage.....
Please mention this paper.

JOHN F. RUPP, SHIREMANSTOWN, PA.
THE HOME OF PRIMROSES.

FERNS

PTERIS TREMULA, strong, ready to shift, to 4s, $3.50 per 100; $30.00 per 1000.

N. EXALTATA (Sword Fern).....$4.00 per 100
N. EXALTATA Bostoniensis.....$5.00 per 100
N. CORDATA.....$6.00 per 100
N. DAVALLIOIDES Furcans.....$10.00 per 100

Address **R. WITTERSTAETTER, Sedamsville, O.**

CINERARIAS....

Healthy young pot plants, just right for blooming at Christmas and New Year's. This is no common stock, but fine strain of Dwarf Hybrids from first-class European growers. **Price, $2 per 100; $18 per 1000.**

E. FRYER, Berriman St. & New Lots Ave. BROOKLYN, N. Y.

IT IS GOOD BUSINESS POLICY TO MENTION THE AMERICAN FLORIST WHEN YOU WRITE TO AN ADVERTISER.

E. G. HILL & CO.,

RICHMOND, INDIANA.

Cycas Revoluta Stems

Popular sizes, 3 to 6 lbs each.....10 cts. per lb.

Please Mention the American Florist.

SMILAX

Fine stock, ready to run as soon as planted, winter sown and several times headed back, 2½-inch pots, $2.50 per 100.....

NATHAN SMITH & SON, ADRIAN, MICH.

ROBERT CRAIG & SON

FLORISTS

49th and Market Sts., = PHILADELPHIA

Crimson Rambler

Two-year-old. The finest stock in America. $25 per hundred.

Asparagus Sprengerii

AN IMMENSE STOCK OF THIS POPULAR PLANT....

2-inch pots, extra strong	$ 5	per 100
" "	45	per 1000
3-inch pots, "	10	per 100
" "	80	per 1000

Also larger sizes in quantity.

Asparagus Plumosus

2-inch pots	$ 5	per 100
"	45	per 1000
3-inch pots	7	per 100
"	60	per 1000
4-inch pots, extra heavy	15	per 100

Our stock of FERNS, PANDANUS, DRACÆNAS, CROTONS and Decorative Plants is larger and finer than ever before.

CALL AND SEE THEM

CARNATIONS

FROM THE FIELD

Large lot in good shape now ready. Flora Hill, Victor, Mayor Pingree, Lily Dean, Triumph, Armazindy and other good varieties. Jubilee in four inch pots. Write for price lists.

Carnations Under Glass.

We are growing all our carnations under glass this summer, and with observation and experience gained from last season, when part of our plants were grown the same way, we have been able to direct our operations so that at this date the plants are showing very gratifying results. The varieties grown are Mrs. McBurney, Mayor Pingree, Flora Hill, Jubilee and Breitmeyer & Sons' new Cerise Queen. Mrs. McBurney is making the best growth of any, the habit being very similar to Daybreak, which is one of the poorest growers in the field here. It seemed to be almost impossible to keep it free from thrip and red spider, which stunted the young shoots to such an extent that it took them a couple of months to straighten out again after being planted inside. Indoor planting has, therefore, certainly an advantage in this respect, as we have thus far been unable to find a trace of disease of any description whatever.

Jubilee and Mayor Pingree are also showing up well and are making the same short, stocky growth as when planted in the field. The first planting was made June 16, the plants being at that time clean, healthy stock from 3-inch pots. Before planting the soil was made as firm as possible and the plants set ten inches apart each way. To show the growth they have made, it may be stated that the plants of Mrs. McBurney before being tied up are touching one another each way, so we fail to see where the poor little plant comes in that is credited so often, by several writers, to indoor grown carnations.

After planting we water only at the plant, and not the entire soil in the bench, till the plants have got root hold and by this time generally the weeds have started into growth. We then go over the benches and do the weeding when the soil is leveled off. The beds are then given a good watering, care being taken that the soil is wet evenly all through. The little shading that was left on the glass is now removed entirely, so that the plants get the full sunlight. Some advocate giving the beds a mulch at this season, but we are not in favor of it, as we cannot see what is to be gained thereby. The roots have not reached that stage of development on the surface which calls for protection and nourishment.

Our plan is to keep the surface of the bed open by light scratching, which keeps it from becoming hard or baked and helps the soil below to retain the moisture longer. Sometimes we find the surface to look as though it was thoroughly dry but upon examination below find it to be in an even moist condition, which, from our experience, is what the carnation requires, and we aim to keep it that way so far as possible. In regard to syringing, we find at this season if the soil is kept as above stated, and not allowed to become too wet, that an occasional syringing on bright days is very beneficial and with plenty of ventilation will keep the plants free from thrip and red spider.

C. W. JOHNSON.

STEUBEN, N. Y.—At the flower show in progress here the display includes a collection of orchids and water lilies from Kimball Conservatories, of Rochester, a shipment of named gladioli from John Lewis Childs, the seedsman, begonias from Grove P. Rawson, of Elmira, and other rare plants. Mr. Rawson gave his lecture, "A Garden Full of Experience" on the opening night.

TAPLIN'S PATENT DOUBLE ACTION CLAY AND SLACK BURNING BOILER....

Specialties in Plants:

CYPRIPEDIUM INSIGNIA in all sizes up to fourteen inch pans.

COELOGYNE CRISTATA in all sizes.

AZALEAS, half specimens and specimens, from four feet to ten feet high.

ASPARAGUS PLUMOSUS, two years; extra strong in four inch pots.

DOUBLE WHITE PRIMULAS in three and four inch pots, ready in September and October.

S. TAPLIN,

FLORIST AND NURSERYMAN

FORT STREET WEST, DETROIT, MICH.

PALM Seed. FRESH ON HAND

All kinds of PHOENIX SEEDS.
A new shipment of Kentia Belmoreana and Forsteriana will arrive in a few weeks....
J. L. SCHILLER, 404 East 34th St., NEW YORK CITY.

Azaleas
Palms
Bay Trees
Araucarias
THE FINEST STOCK IN THE WORLD
SANDER,
BRUGES, BELGIUM.
AGENT:
A. DIMMOCK,
60 Vesey St., NEW YORK.
Mention Am. Florist when writing.

JOSEPH HEACOCK
WYNCOTE, PHILA., PA.
GROWER OF
ARECA LUTESCENS,
COCOS WEDDELIANA,
KENTIA BELMOREANA,
LATANIA BORBONICA.

Orchids!

IMPORTED and Established Stock of A-1 quality always on hand. Also a complete line of best Cherrywood Baskets, Fresh Moss and Peat, etc.
LAGER & HURRELL, SUMMIT, N. J.

TO THE EDITOR—

Dear Sir: This summer that now begins to totter with age has been one of much heat and humidity, of which our ingenuity, assisted by Nature, has caged a part into many living specimens of beauty.

Being desirous that those specimens shall be widely distributed, that the handiwork of Nature may brighten the scenes in many homes when she has reversed her course and lies slumbering beneath the white sheet of gloom, it is to your valuable paper that I do appeal for assistance, that I may make known to the world my achievement the past summer, in storing heat and moisture into so much beauty, from the life-giving rays of Sol, surpassing all my previous efforts, as Nature at this time of the year gives all the elements that build the vegetable cells and tissues into beauty, without the aid of Nature's ancient storehouse of heat from the bowels of the earth.

We are able to place within the reach of all a fine collection of Rubbers, Palms, Dracænas, Pandanus and many rare specimens of other Decorative Plants, of various sizes.

For description and terms apply to

WM. K. HARRIS,
55th St. and Springfield Ave.,
Philadelphia, Pa.

2500 Asparagus Plumosus Nanus (TRUE)

Extra strong, ready to shift to 3-inch pots, $3.00 per 100. Selected, $3.50 per 100.

300 BRIDESMAID ROSES, strong plants from 3-inch pots, $4.00 per 100.

A. R. ALDRICH, Florist, Springfield, O.

DREER'S SPECIAL OFFER OF PALMS.

Areca Lutescens.

We offer a fine lot of clean thrifty plants of this graceful and popular variety.

Inch pots.	Height.	Per doz.	Per 100
3		$1 25	$10 00
6 Very bushy.	28 to 30 ins.	12 00	100 00
		Each.	Per doz.
8 " "	36 to 42 "	2 50	30 00
8 " "	42 to 48 "	3 00	36 00
9 Heavy single plants.	48 to 60 "	6 00	

Cocos Weddeliana.

Our stock of this useful palm is unusually large. Note reduction in price.

	Per doz.	Per 100	Per 1000
2¼ in pots, 4 to 5 ins. high	$1 25	$10 00	$90 00
3 " 8 to 10 "	2 00	15 00	140 00

Kentias.

Our stock of Kentias occupies over one and a half acres of glass, the largest block of these most useful palms in the world. Medium sizes are generally scarce this season.

Kentia Belmoreana.

Inch pots.	Leaves.	Height.	Per doz.	Per 100	Per 1000
3	4 to 5	10 to 12 ins.	$3 00	$25 00	$225 00
4	5 to 6	15 to 18 "	6 00	50 00	450 00
			Each.	Dozen.	
5	5 to 6	22 to 24 "	1 00	12 00	
6	6	24 to 26 "	1 25	15 00	
8	6	30 to 36 "	2 50	30 00	
8	6	36 to 42 "	3 00	36 00	
9	6 to 7	42 to 48 "	4 00		
9	6 to 7	48 "	5 00		
9	6 to 7	48 to 54 "	6 00		
9	6 to 7	54 "	7 50		
10	6 to 7	54 "	10 00		
10	6 to 7	60 to 72 "	15 00		
12	7 to 8	7 to 8 feet	35 00 to 50 00		

Kentia Belmoreana. Made-up Plants.

This class of stock is very fine and has met with much favor with many of our best and most critical eastern trade the past winter.

5 inch pots, center plant about 24 inches high, with three smaller plants around it, $1.25 each.

7 inch pots, center plant about 32 inches high, with 3 smaller plants around it, $2.50 each.



8 inch pots, 4 plants in a pot, center plant about 30 inches high, others about 18 inches high, $3.50 each.

9 inch pots, 4 plants in a pot, center plant about 36 inches high, others about 20 inches high, $5.00 each.

10 inch pots, 4 plants in a pot, center plant 3½ to 4 feet high, others about 36 inches, $7.50 each.

10 inch pots, 4 plants in a pot, center plant about 4 feet high, others about 2½ feet, very heavy, $10.00 each.

11 inch pots, 4 plants in a pot, centre plant 4½ to 5 feet high, others about 3 feet, grand specimens, $12.50 each.

Kentia Forsteriana.

Inch pots.	Leaves.	Height.	Per doz.	Per 100
2¼	2 to 3	6 ins	$1 50	$12 00
3	3 to 4	12 "	2 50	20 00
4	4 to 5	15 to 18 ins.	5 00	40 00
5	5	18 to 20 "	9 00	75 00
			Each.	Dozen.
6	5	24 to 28 "	1 00	12 00
7	6	36 "	2 00	24 00
8	6	42 "	3 00	
8	6	42 to 48 "	3 50	
9	6	48 to 52 "	6 00	
9	6	52 to 60 "	7 50	
10	6	72 "	10 00	
12	7	72 to 84 "	25 00	
14 (in tubs)	7	7 to 8 feet	35 00 to 50 00	
16 "	7	10 "	75 00 to 100 00	

Kentia Forsteriana. Made-up Plants.

7 inch pots, 4 plants in a pot, center plant 36 to 42 inches high, others about 18 inches, $2.00 each.

8 inch pots, 3 plants of equal height, about 42 inches high, $3.00 each.

9 inch pots, 3 plants of equal height, from 42 to 48 inches high, $4.00 each.

10 inch pots, 4 plants in a pot, center plant 5 feet high, others 2 feet high, $10.00 each.

12 inch pots, 5 plants in a pot, center plant 6 feet high, others 2½ feet high, $25.00 each.

Phoenix Rupicola.

The most graceful of all. We offer a fine lot in 6 inch pots, characterising very nicely, with 6 leaves, 20 to 24 inches high, $1.50 each; $18.00 per doz.

Stronger plants in 6 inch pots, 24 to 30 inches high, 6 to 7 leaves, $2.00 each.

Also a fine lot of young plants in 2¼ inch pots, $1.00 per dozen: $8.00 per 100

Latania Borbonica.

Our stock of Latanias in small sizes is again in excellent condition, especially the 2, 3 and 4 inch pots.

2 inch pots, 3 to 4 leaves, 60 cents per dozen; $4.00 per 100; $35.00 per 1000.

3 inch pots, 4 to 5 leaves, beginning to show character, $1.25 per doz; $10.00 per 100; $80.00 per 1000.

4 inch pots, 4 to 5 leaves, an excellent lot of plants of exceptional value, $3.00 per dozen; $25.00 per 100; $225.00 per 1000.

5 inch pots,	4 to 5 leaves,	18 inches high	...	$5.00 per doz.;		$40.00 per 100.	
6 "	5 to 6 "	18 to 20 "	"	9.00 "	"	75.00 "	
7 "	6 "	24 "	"	12.00 "	"	100 00 "	
7 "	6 to 7 "	26 to 30 "	"	1.25 each		15.00 per doz.	
8 "	6 to 7 "	28 to 30 "	"	1.50 "		18.00 "	
8 "	7 "	36 "	"	2.50 "		30.00 "	
10 "	7 to 8 "	36 "	"	4.00 "		48.00 "	

The largest sizes are not all perfect, the lower foliage being somewhat clipped, but are good salable plants that will give entire satisfaction.

For a complete list of other Palms and Decorative Stock, see our current Wholesale Catalogue.

HENRY A. DREER,

714 CHESTNUT STREET.

PHILADELPHIA, - - - - - - - PA.

Chinese Primulas.

This is a class of plants very easily cultivated, and also one of the most useful for florists' work. From seed sown the first week in April they can be had in bloom at Christmas and New Year's.

I find the seed germinates best in a temperature of 75° to 80°. I sow the seed in well drained pots, using a compost of loam and leaf mold with a little sand; a square of glass laid over each pot will prevent the soil from drying out too quickly.

The young plants should be left in the seed pots until they are large enough to pot off singly into 2-inch pots and then they can be put out in a cold frame and kept close and well shaded for a few days. As the pots become filled with roots give them a shift into 4-inch pots.

The next and final potting is into 6-inch pots, using a good, rich soil consisting of two parts loam to one each of well decayed cow manure and leaf mold, with a small proportion of sand. I also add a 5-inch pot of bone meal to each barrowful of compost. After the final potting the plants are plunged in coal ashes and given all the air possible, only using the sashes on them in case of rain. They will need shading through the hottest part of the day. Water carefully until well rooted; afterwards a little weak manure water will help them. I leave them outside in the frame until the end of September, after which they are removed to the greenhouse and placed on a shelf near the glass, keeping the house at a temperature of 45° to 50°.

WILLIAM THATCHER.

Brookline, Mass.

BOSTON FERN

Our 25c size will sell for $1.00. Smaller sizes, 5, 10, 15 and 20c each.

H. F. LITTLEFIELD
WORCESTER, MASS.

B. H. RITTER,
GROWER OF
CALADIUM ESCULENTUM
AND FANCY LEAVED SORTS.
PORT ROYAL, S. C.

CYPERUS ALTERNIFOLIUS
3-inch, per 100 $3.00.
BEGONIA ALBA PICTA
3-inch, per 100 $3.00.
Above in fine shape. Cash with order.
GEO. L. MILLER, Newark, O.

2000 RUBBER TREES. In perfect health; none better; 5½-in., $50 per 100, 6-in., $65 per 100; 70c each.
100,000 YOUNG LATANIAS, strong, $25 per 1000.
ARALIA SIEBOLDII, 5½-inch $25 per 100.
65,000 PALMS, in variety.
25,000 FERNS for dishes, 2½-inch, $2.50 per 100.
SWORD FERNS, 4½-inch, $12.50; 5½-inch, $35; 6-in. $50 per 100.
[World's Fair Medal awarded on Palms.]
ALBERT FUCHS, 2059-73 N. Halsted St. CHICAGO.

ESTABLISHED 1857. PHONE, LAKE VIEW 136.

WHOLESALE

GEO. WITTBOLD,
Grower and Importer of **TROPICAL PLANTS**
OFFICE AND SALESROOM,
1708 NORTH HALSTED STREET, CHICAGO.
Largest Stock of Tropical Plants in the West.

Our place has been enlarged from year to year until now we have the largest establishment in the west where Palms, Ferns, etc. are grown exclusively.

Our shipping facilities are unsurpassed, as all the large Express companies make two calls at our place each day, and we also have easy access to all railroad lines running into Chicago.

We endeavor to fill all orders to the satisfaction of our customers, as we hope thereby to gain their future trade.

Satisfactory references or cash must accompany all orders from parties with whom we are not acquainted. We hope to be favored with your trial order.

FERNS.

Varieties.	Size Pot.	Price. Doz.	Hun.
ADIANTUM CUNEATUM	2-inch	$.50	$4.00
" "	3 "	1.00	8.00
" "	4 "	1.50	12.00
" PUBESCENS	2 "	.50	4.00
" "	3 "	1.00	8.00
NEPHROLEPIS EXALTATA	4 "	1.50	12.00
" "	5 "	2.00	16.00
" "	6 "	4.00	30.00
" BOSTONIENSIS	5 "	3.00	25.00
" "	6 "	5.00	40.00
" "	10 "	30.00	
" DAVALLIOIDES FURCANS	8 "	12.00	
LOMARIA GIBBA	3 "	1.00	8.00
PTERIS ADIANTIFOLIA	2 "	.50	4.00
" CRETICA ALBO LINEATA	2 "	.50	4.00
CYRTOMIUM FALCATUM	3 "	1.00	8.00

The above ferns are in fine condition and will give good satisfaction.

PALMS.

Varieties.	Measurements, top of pot to top of tallest leaf. Size Pot.	Height Inches.	Character Leaves.	Prices. Each.	Doz.
ARECA LUTESCENS	5-inch	18-20	10-15	.50	
" "	6 "	25-30	15-20	.75	$9.00
COCOS WEDDELIANA	3 "	5-6	4-5	.20	2.00
" " strong	3 "	8-12	5-6	.25	3.00
KENTIA BELMOREANA	5 "	16-18	4-5	.75	7.20
" "	6 "	21-24	5-6	1.25	15.00
" FORSTERIANA	5 "	16-18	3-4	.75	7.20
" "	8 "	40-45	5-6	3.00	36.00
LATANIA BORBONICA	3 "	8-10	1	.15	1.50
" "	4 "	12-15	2-3	.25	3.00
" "	5 "	12-15	3-4	.50	5.00
" "	6 "	15-18	4-6	.75	9.00
" "	7 "	18-20	6-8	1.00	12.00
" "	8 "	30-35	6-10	2.50	30.00
PHŒNIX RECLINATA	4 "	12-15		.25	3.00
" "	5 "	15-18	2-3	.50	5.00
" CANARIENSIS	6 "	18-20	7-10	.75	9.00

MISCELLANEOUS.

ARAUCARIA EXCELSA	6 "	18-22	4-5 tiers	2.00	24.00
" "	7 "	30-36	5-6 "	3.00	36.00
CYPERUS ALTERNIFOLIUS	4 "	nice plants			1.00
PANDANUS UTILIS	3 "	"			1.50
" "	4 "	"			3.00
" "	5 "	"			5.00
" "	6 "	"			9.00
FICUS ELASTICA	4 "	"			3.00
" "	5 "	"			5.00
" "	6 "	"			9.00
" "	9 "	"			24.00
ASPARAGUS PLUMOSUS NANUS	3 "	"			1.00
" "	4 "	"			1.50
DRACÆNA FRAGRANS	4 "	"			3.00
" "	5 "	"			5.00
ANTHERICUM VARIEGATUM	3 "	"			1.00
SELAGINELLA EMILIANA	3 "	"			.75
" "	4 "	"			1.50
" MARTENSII	3 "	"			.75
" "	4 "	"			1.50

SPECIAL. We also offer this season a large and fine lot of **CYCAS REVOLUTA** plants from 50c to $15.00 each and can recommend them as good values.

ASPARAGUS SPRENGERI.
50,000 plants in 2½-inch pots, $5.00 per 100, Xpress; 24 for $1.50 by mail.
Specimens for 8-inch pots, $6 per 12.
A. BLANC & CO.
PHILADELPHIA.

Successful Growers are Wanted

To know that they can dispose of all their surplus stock by advertising in the American Florist. TRY IT NOW.



IMPOSSIBLE!

For us to make an Exhibit at the Convention as our LATEST and BEST Importations will not arrive in time. However our MR. M. RICE will be at Omaha and shall be pleased to meet you and give ANY and ALL information as to HOW, WHEN and WHERE to buy Florist Supplies, as he represents M. Rice & Co., one of the LARGEST and BEST Supply Houses in this country. If you are not personally acquainted with him ask one of your friends to point him out. He is very easy to get along with.

A few of our specialties are Baskets, Wheat Sheaves (famous and unparalleled), Metal Designs, Palms or Sago Leaves, Immortelles, Cape Flowers, Moss Wreaths, Dried Grasses, Artificial Flowers and Leaves, Doves, Pedestals.

WE MOST CORDIALLY INVITE INSPECTION AND COMPARISON TO OUR UNEXCELLED STOCK. QUOTATIONS CHEERFULLY GIVEN

M. RICE & CO.

IMPORTERS and MANUFACTURERS

25 North 4th Street,

PHILADELPHIA, PA.

NEW CATALOGUE READY ABOUT SEPTEMBER 15, 1898.

St. Paul.

TRADE AND WEATHER CONDITIONS IN THE MINNESOTA CAPITAL.—REPLANTING IS IN PROGRESS.—MUCH BUILDING AND REPAIRING UNDER WAY.—NOTES FROM THE PARKS.—JOTTINGS.

Quite a number in the Twin Cities have announced their intention of attending the Omaha meeting and we hope to see from fifteen to twenty-five in the party.

The growers are all very busy. Those who are not planting carnations are building new houses or making necessary repairs.

Trade jogs along in the usual manner at this season of the year but, leaving out funeral work, there would not be enough to warrant one in keeping stores open. Stock is scarce. Roses and carnations are hard to obtain at any figure, but some good Kaiserin, Meteor, Testout and Beauties are seen, the latter bringing $3 per dozen at retail. Nearly all carnations have been thrown out to make room for new stock and cut blooms are very scarce.

In outside stock sweet peas are fairly plentiful, though the drought cut short the crop at least fifty per cent. Asters are just coming into bloom and are of poor quality. Many plants are coming blind and the crop will be poorer than last year.

Christ Hansen has broken ground for a new violet house 11x120 feet. His roses and chrysanthemums are all planted and doing nicely. In one rose house he has cemented the benches and is sub-irrigating. It is yet too early to note the results of this departure.

Fred. Schulze, on Lafond street, has purchased a new boiler for his plant.

C. Bussjaeger has completed his new houses and has them filled with roses. The steam fitters are now at work putting in pipes, etc. Out at Merriam Park A. S. Swanson has built one new house.

H. J. Puvogel, on Summit avenue, has bought a new boiler.

E. S. Lemke has his new store and office building nearly completed. This is in the rear of his retail store and is being fitted up as a wholesale department.

L. L. May & Co. have repainted all of their houses inside, putting in new benches in several and made many much needed changes in benches and heating. This week they have broken ground for a new cellar for potatoes and bulbs, to be built underneath their frame warehouse.

Our long drought was broken on Friday, the 5th, by a heavy rain which will prove of immense benefit to all outside stock.

The parks are looking very fine at this season. At Como the Victoria regia and Randi are showing a number of buds and blossoms, while the Zanzibar lily, water hyacinths and poppies are all in a blaze of glory. Cannas are displaying their gorgeous tints to best advantage and all nature seems putting forth one grand final effort before the autumn frosts rob it of its beauties.

Recent callers were Mr. Goppinger, representing Andre Leroy & Co., Nimes, France; Mr. Sluis & Son, of Eukhuizen; Mr. J. H. Roach, with J. B. Rice & Co.; Mr. H. Currie, who called for one moment; Mr. Suie, representing H. A. Drecr; Mr. Boas, of Edwards & Docker, and several others. FELIX.

COUNCIL BLUFFS, IA.—Frey & Kastner, successors to McPherson & Frey, have moved into new quarters at 4 Pearl street, have put in new fixtures and may claim a very handsome store. They are also building a considerable addition to their greenhouses.

ROSE PLANTS! OUT OF 2½ INCH POTS

AMERICAN BEAUTIES.....$5.00 per 100. $45.00 per 1000.
METEORS..... 3.00 per 100. 25.00 per 1000.

Wietor Bros., Successors to... ROGERS PARK FLORAL CO.

Wholesale Growers of CUT FLOWERS ROSE PLANTS... 51 WABASH AVENUE, ...CHICAGO...

STRONG SELECT 3-INCH ROSES.

All in splendid growing condition, certain to please.

	Per 100.	Per 1000.
2000 BRIDES	$4.00	$35.00
1000 MAIDS	4.00	35.00
1000 PERLES	5.00	50.00
600 BEAUTIES	6.00	60.00
600 METEORS	3.50	32.50

500 in assortment, at 1000 rate. This stock will make you money. Samples, if desired, for 50 cts. in stamps.

W. H. GULLETT & SONS, Rose Growers, LINCOLN, ILL.

40,000 FIRST QUALITY FORCING ROSES. READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

AMERICAN BEAUTY — LA FRANCE — PRESIDENT CARNOT
3 inch pots, $8.00 per 100. 4-inch pots, $12.00 per 100.
METEOR — KAISERIN — SUNSET — BON SILENE
PERLE — MME. HOSTE — NIPHETOS — BRIDE
BELLE SIEBRECHT. 3-inch pots, $7.00 per 100. 4-inch pots, $10.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphetos, Kaiserin, 3 and 4-inch.
Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted.
A. S. MacBEAN, Lakewood, N. J.

ROSE PLANTS
800 METEORS IN 3-IN. POTS, $3.00 per 100.
200 METEORS IN 2-IN. POTS, $2.00 per 100.
John P. Tonner, - Mont Clare, Ill.

Roses With Good Heads and Substantial Feet.....
BRIDE
BRIDESMAID
MERMET
$80.00 per 1000. From 4-inch pots, and they are good. Other desirable sorts in limited quantity.
GEO. L. PARKER,
807 Washington St., Dorchester, Mass.

ROSE PLANTS Per 100
5000 AMERICAN BEAUTIES, 3-inch, $5.00
350 SUNSET..... 3-inch, 4.00
700 BRIDESMAIDS..... 3-inch, 3.00
1400 METEORS..... 2½-in., 2.00
Fine, healthy stock; good size.
FIRST COME, FIRST SERVED.
A. G. PRINCE & CO.,
88 and 90 Wabash Ave., CHICAGO.

FORCING ROSES

	2½-in. Per 100	2½-in. Per 1000	3½-in. Per 100
BRIDE	$2 50	$22.50	$
BRIDESMAID	2.50	22.50	
METEOR	2.50	22 50	4.00

White, Pink and Yellow Ramblers, same. Moonvines $20.00; Alternantheras $18.00 per 1000.
THE NATIONAL PLANT CO., Dayton, Ohio.

AMERICAN BEAUTY
Fine young plants, healthy and strong. 3-inch pots, $10.00 per 100; $90.00 per 1000.
EDWIN LONSDALE,
Wyndmoor, Chestnut Hill,
Cash with order. PHILADELPHIA, PA.
Money Order Office, Station H, Phila.

ROSES

BRIDES, 3½-in.	$4.00 per 100
BRIDESMAIDS, 3½-in.	4.00 per 100
METEORS, 3½-in.	4.00 per 100

Very choice; grown for our own use. May be returned at our expense if not satisfactory.

BRANT & NOE—Gentlemen: DALLAS, TEXAS.
We are greatly pleased with rose plants received.
Yours, etc., TEXAS SEED & FLORAL CO.
BRANT & NOE, - Forest Glen, Ill.

ROSES! ROSES!
Brides and Meteors from 2-inch, $3.00 per 100; $25.00 per 1000.
Kaiserin and Meteors, from 3-inch, $5 00 per 100; $45.00 per 1000.
Am. Beauties from 3-in., $5.50 per 100; $50 per 1000.
50 at 100 and 500 at 1000 rates. Cash with order.
ROBERT F. TESSON,
West Forest Park, - St. Louis, Mo.

Surplus Stock
Can be disposed of by advertising. Try it.....
This Size "Ad." Costs Only $1.00.
AMERICAN FLORIST CO., CHICAGO.

ROSES
Maids, Brides, Perles and Meteors, in 4-inch pots, $8.00 per 100.
Kaiserin, Perles, Meteors, Maids and Brides, in 3-inch pots, $6.00 per 100.
VIOLETS, Marie Louise, in 2½-in. pot, $3.00 per 100.
BEGONIA REX in 4-in. pots.....$20.00 per 100.
All of the stock is in fine healthy condition.
WM. F. KASTING, - Buffalo, N. Y.

If you write to any advertiser anywhere mention the paper in which you saw the ad. Both publisher and advertiser will like you better for it.

ROSE HILL NURSERIES

Welcome!

We extend to **ALL** a cordial invitation to visit our Nurseries at New Rochelle, N. Y., either on your way to or from the Convention, **and at all times.** We may be able to furnish you just what you want. Our stock of

Palms, Ferns, Pandanus, Ficus,

Dracænas, Araucarias, &c.

has never been as fine as the present, and we believe it would be worth your while to see our stock and compare it with others before purchasing. Drop us a postal card, or telephone, and our carriage will meet you.

NOTICE! We shall not publish a Fall Catalogue or Price List. We would suggest and also advise, that any one in this line of business should **see the STOCK** before purchasing and compare same. Plants cannot be sold by yard or height. Height or size of pot never makes the plant. Catalogues and Price Lists we consider as the best method by which to keep your name before the public, but when stocking up for Fall and Winter trade, the best way is to see the stock, either by a **visit** or **sample.** Our stock is the finest today in America, and to sell by catalogue description would not be doing **JUSTICE** to the same, as it is cool grown, not drawn, and in fine shape, compact and bushy and well colored and will stand well wherever placed. We extend this invitation so you may be able to judge for yourselves.

New York to New Rochelle, 35 Minutes. **TIME TABLE** New Rochelle Depot to Nurseries 10 Minutes.

New York, New Haven & Hartford Railroad Trains leave from 42d Street for New Rochelle, N. Y.—7:00 8:00, 8:02, 9:02 10:03, 11:03, 12:06, 1:06 2:02, 3:06, 4:06, 5:03, 5:33.
Return to New York—8:38 9:04, 9:45 10:40, 11:40, 12:45, 2:13, 3:28, 4:25 5:13, 6:35.
Or, if you prefer to take a sail up Long Island Sound to Glen Island and visit one of the grandest Summer resorts in America Little Germany and Botanical Collection, our carriage will meet you at the wharf. Boats leave foot of Cortlandt Street, East 32d St., and Brooklyn.
Let us know which way you are coming and at what time.

Siebrecht & Son,

NEW ROCHELLE, N. Y.

Telephone 151 New Rochelle.

Surplus Roses, Etc.

	Per 100
PERLES, 3½-inch	$5.00
BRIDESMAIDS, 3-inch	3.50
SMILAX, 3-inch, very strong	1.50
DRACAENA INDIVISA, 2-inch	1.50
MARIE LOUISE VIOLETS, 2½-inch	2.50
CALIFORNIA " 3-inch	3.00
WATER HYACINTHS, per 15	$1.00

All stock perfectly clean. Roses very strong and bushy. Terms cash.

J. M. SMELY, Successor to R. SAUNDERS,
354 SO. FOURTH ST., AURORA, ILL.

ROSES

Brides
Bridesmaid
...Perles

3-inch Pots, $4.00 per 100.

200 Grafted Bridesmaid

4-inch Pots, $10.00 per 100.

S. J. REUTER,
WESTERLY, R. I.

Carnations!

Field-Grown Plants of...

DAYBREAK, PINGREE, McGOWAN AND SCOTT, in perfect health. Prices on application.

THE BOOL FLORAL CO., - Ithaca, N. Y.

FORCING ROSES....

FIRST-CLASS, CLEAN, HEALTHY STOCK.

We claim **GOOD VALUE** at these prices. Send for samples.

	2½-in. per 100	3½-in. per 100
American Beauty	$6.00	$12.00
Papa Gontier	4.00	10.00
Pres. Carnot	4.00	10.00
La France	4.00	10.00
Mlle. Helena Cambier	4.00	10.00
Kaiserin A. Victoria		9.00
Perle des Jardins	3.50	9.00
Brides	3.00	8.00
Bridesmaids	3.00	8.00
Meteors	3.00	8.00
Clothilde Soupert	3.00	8.00
Mosella	3.00	8.00

Asparagus Sprengeri, 2-in. pots, strong....per 100, $5 00
Asparagus Plumosus, 2½-in. pots, fine stock " 7.00
Boston Fern 2½-in. " 6 00
Nephrolepis Exaltata, 4-in. " 15 00
Ferns in assortment, 2½-in. " 4.00
Araucaria Excelsa, 6-in. pots, 15-18-in. high @ $1 50 each
Cocos Weddelliana, 3-in pots @ $2 50 per doz.
Kentias, Arecas, Latanias, etc., large quantities in all sizes. Write for Special Prices, on sizes you want.

VAUGHAN'S SEED STORE,

Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

FOR FORCING!

Brides and Bridesmaids, 3 and 3½-inch pots, prepared for forcing, fine plants....$4 per 100.
Bon Silene, Ophelia, Mme. Schartr.. 4 per 100.
SMILAX, 2-inch pots..... 1 per 100.
At these prices, cash invariably with the order.

F. WALKER & CO.

Box 316.... NEW ALBANY, IND.

A FEW ROSES LEFT

MUST BE SOLD TO MAKE ROOM.

175 LA FRANCE
200 TESTOUT
175 PERLE
} 4-inch pots, $4.00 per 100

175 SIEBRECHT, 3½-inch pots, $3.00 per 100

200 PERLE
150 LA FRANCE
200 TESTOUT
} 2½-inch pots, $2.00 per 100

SPEAK QUICK IF YOU WANT THEM.

E. NAGEL & CO., 824 Nicollet Ave., MINNEAPOLIS, MINN.

ROSES

Own Roots. Dormant. Field Grown.

For Fall of 1898 and Spring of 1899.
GROWN AT BILOXI, MISS.

No. 1, 2 to 4 feet, cut back to 2 feet: Yellow Rambler (Aglaia), Hybrid Perpetuals, Mosses, Hardy Climbers, Marechal Niel, Wichuraiana, Madam Plantiere.

These plants are very strong and well shaped. Prices on application. Address

W. F. HEIKES, Manager,
1308-1310 Unity Bldg., CHICAGO, ILL.

Roses!

600 Bridesmaid
500 Bride
500 Perle
500 Louis Philip
300 La France
100 Queen
100 Papa Gontier
100 La Phœnix

Good strong plants from 3-in. pots, $3 per 100.

... SMILAX ...

Strong plants, 2½-in. pots, $1.50 per 100; $12.50 per 1000. Cash with order.

R. VINCENT, JR. & SON,
WHITE MARSH, MD.

Helpful Reminders.

This is what we call our dull season, and it is a fine opportunity to get some new ideas.

The national meeting of florists is valuable, but there is one kind of information that cannot be obtained at conventions, and that is the knowledge of how successful your efforts have been in pleasing your customers. You can not do better work for two or three days than to drive around and examine the lawns and gardens of those for whom you have done work or supplied stock. Make a careful note of such things as are doing well and those which are not satisfactory. After going the rounds you will have many interesting matters to think of.

Where you had filled a few porch boxes or vases and find them becoming rootbound, send a package of sheep manure and bone meal mixed, with your compliments, with a note explaining that they are becoming impoverished and need fertilizing in order to maintain a vigorous growth for the balance of the season. Admonish others to keep the old flowers picked off and to give thorough waterings; say you noticed that a couple of geraniums were broken out of a certain bed, which you beg leave to repair; inform them that their coleus are in poor color, doubtless because the lawn sprinkler was allowed to wet the foliage frequently; it is best to let the water run from the hose quietly under the foliage. Note that you were pleased to see the clematis in good condition, but suggest that the trellis be extended so as to facilitate growth and make more display. Cover all the points and make particular note in your mind of any of your own short comings which may be in evidence. It will pay you to hire a stenographer to get these letters out for you in good shape. There is no better advertising, and, as for yourself, it keeps you thinking directly on the most essential points that concern the welfare of your business.

While the summer trade in flowers is quite limited, we must fill orders carefully, and a few flowers that are giving some of us satisfaction are valuable as a relief from roses and carnations which are not good now. The Japan lilies please almost every one and are adapted to many uses. The justicias are pink, a color much in demand, are easily grown and bloom continuously in summer. A person will look on a single plant with indifference but a good display will win admiration. The white jasmine is pleasing in a bunch of mixed flowers for a vase. Tritonias, old fashioned and little known, please immensely; the hypericums are most beautiful yellow-blooming shrubs at this time of the year and are very easily grown; torenias are pretty now and the Soupert roses and forget-me-nots keep blooming and are continually called for.

There is a good deal of poultry wire netting used nowadays for trellises for vines and florists are called upon to put it up. Hardware stores charge one and one half to two cents a square foot for it, but you can get it in whole pieces at thirty-seven cents per one hundred feet. It pays to get a roll and sell it as wanted.

C. B. W.

NEW BEDFORD, MASS.—W. G. Kraber, who, for two and a half years, has been in business on Florence street has leased the George Brennan place at 35 Tremont street. Mr. Brennan has removed to a farm which he has purchased at Shawmut, Mass.

C. E. LARZELERE. JOHN DUNN, JR.

WM. LARZELERE & CO.

(Established 1866)

Custom House Brokers

Licensed under U. S. Laws.

Notaries Public authorized to administer Customs declarations.

PHILADELPHIA: 126 South 4th St.

NEW YORK: 121 Pearl St.

With correspondents in principal ports of U. S. and Europe. All matters relating to Customs laws attended to on both Imports and Exports. Information given as to classification and values, and method of shipping goods to and from U. S. Florists can save time and money by consulting us in writing or person at our Philadelphia or New York offices.

HUSSA & CO.

CUSTOMS BROKERS AND FORWARDERS,

66 Beaver St., - NEW YORK.

ESTABLISHED 1872.

All customs matters attended to. Correspondence solicited.

THE

Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

The "GARDENERS' CHRONICLE" has been FOR OVER FIFTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, much of the information furnished is of such general and permanent value, that the "GARDENERS' CHRONICLE" is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, $4.20 per year. Remittances to be made payable to H. G. COVE.

OFFICE:—

41 Wellington St., Covent Garden, London, England.

THE WABASH R. R. COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to.

H. B. McCLELLAN, G. E. A.,
387 Broadway, New York City,
J. D. McBEATH, N. E. P. A.,
5 State Street, Boston, Mass.
C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

The ILER GRAND

HOTEL, OMAHA.

A new, strictly first-class, fire-proof **EUROPEAN HOTEL**

Three Cafes in Connection, Centrally Located, Reasonable Rates.

(See hotel list in this paper.)

Convention Headquarters

FOR THE SOCIETY OF AMERICAN FLORISTS WILL BE AT THE . . .

FIRE PROOF HOTEL DELLONE

COR. 14th and CAPITOL AVE.

Special rates have been secured: $1.00 European Plan. Engage rooms in advance. $2.00 American Plan.

Address W. W. COATES, Omaha.

CHICAGO TO OMAHA.

Take the Chicago, Milwaukee & St. Paul Railway. It is the best road and shortest line between the two cities. It has the most perfect track and the finest equipment. The sleeping cars are palaces, and the dining car service equal to the best hotels.

For the meeting of the Society of American Florists, the Chicago, Milwaukee & St. Paul Railway will sell tickets at one fare plus $2.00 ($14.75) Chicago to Omaha and return on August 14th and 15th. Tickets good to return to and including Aug. 25th.

A special solid Vestibuled Electric Lighted train will leave via Chicago, Milwaukee & St. Paul Railway from Union depot at 6:15 p. m. on Monday, August 15th, on arrival of trains from Philadelphia, New York, Boston, Buffalo, Pittsburg, Cleveland, Toledo, Detroit and Milwaukee, arriving Omaha 8:20 a. m. Tuesday.

In purchasing through tickets from East of Chicago, see that they read over the Chicago, Milwaukee & St. Paul Railway from Chicago to Omaha.

Reservations can be made in sleeping cars and tickets purchased on application to H. E. Laing, City Passenger Agent, 95 Adams Street, Chicago.

EXCURSION TO BOSTON.

The Nickel Plate Road will sell excursion tickets from Chicago to Boston and return for trains of September 16, 17 and 18, at rate of $19.00 for the round trip. Tickets will be valid returning until September 30, inclusive. On account of heavy travel at this particular time, those desiring sleeping car accommodations should apply early to J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (58)

MEETING SOVEREIGN GRAND LODGE, I. O. O. F., BOSTON, MASS, SEPT. 19-24.

For this occasion the Nickel Plate Road will sell tickets at rate of one fare for the round trip. Tickets on sale September 16th to 18th, inclusive, good returning until September 30th, inclusive. For particulars address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (59)

NICKEL PLATE EXCURSION TO BOSTON.

Tickets on sale for trains leaving Chicago September 16th to 18th, incusive, at rate of $19.00 tor the round trip, and good returning until September 30th. Also cheap rates to all points East. Vestibuled sleeping cars to Boston, and solid train to New York. Rates lower than via other lines. For further information call on or address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (60)

Don't forget the excursion to Boston over the Nickel Plate Road, September 16th to 18th, inclusive, at rate of $19.00 for the round trip. Good returning until September 30, 1898, inclusive. Telephone Main 3389. (61)

The annual meeting of the Florists' Hail Association will be held at Omaha, in First Congregational Church, on Wednesday, Aug. 17, '98, at 3 p. m.

JOHN G ESLER, SEC'Y.

SMILAX, from 2-inch pots $1.50 per 100; $13.00 per 1000.
HYDRANGEA Otaksa, from 3-inch pots $5.00 per 100.
GERANIUMS, from 2-in. pots $2.25 per 100; $20 per 1000.
" " 3-in. pots, $4.00 per 100; $35 per 1000.
" " 4-in. pots, $6.00 per 100; $50 per 1000.
Cash with the order. Send for samples.
FRED. BOERNER, Cape May City, N. J.
When writing mention the American Florist.

A trade directory...

is an essential to the wholesaler. He needs it every hour. Not only does it supply him with a complete list of all to whom he should mail his circulars or catalogues, but in a thousand little ways does it save him time and vexation worth many times the price of the handy volume.

This is true of any trade directory, but it is particularly true of the American Florist Company's Directory of the Florists, Seedsmen and Nurserymen of the United States and Canada.

In this trade interests are so diversified and specialized that a life long experience will not acquaint one with even a small part of the information which is here accessible. In the Directory is found not only the name of every dealer, classified by states and towns, with each one's branch of the trade, but all names arranged alphabetically.

Here, also, you find the name and address of every firm which issues a catalogue, 950 of them, with a key telling the general contents of each one's publication.

This and much other valuable information is obtainable in a well printed, closely bound volume of 351 pages which will be sent postpaid upon receipt of $2.

AMERICAN FLORIST CO.,
324 Dearborn Street, CHICAGO.

Milwaukee.

THE CREAM CITY HAS ITS SHARE OF THE DULL DAYS.—GOOD PROSPECTS FOR FALL FLOWERS.—PREPARATIONS FOR THE APPROACHING SEASON.—NOTES FROM HERE AND THERE.

In these days of military triumphs General Lassitude has invaded the flower markets and has assumed a dictatorship. There is very little trade and in most of the stores the young lady clerks require their fancy work to occupy their time. Most of the proprietors are, however, busy with plans for the season soon to open and of which we all anticipate a great deal. Everything indicates a good supply of the most desirable stock and work is being managed to conform to the requirements of the retail trade. There will be but the usual supply of roses, carnations and violets but there will be a considerable increase in the variety of flowers offered in this market. Small growers find this class of stock more profitable than competition with those who produce staple blooms by thousands.

Wm. Edlefsen is vacating his Seventh street place and is rebuilding upon ground further north, purchased some time ago. He is also building a show house at the rear of his store on Third street and has given up his drug store stand on Milwaukee avenue.

George Volk has severed his connection with Fox's flower department and will grow blooms for the wholesale market.

John M. Dunlop and Miss Belle Martin were married Tuesday evening, August 10. C. B. W.

EVANSVILLE, IND.—Levi Lockyear, of 1623 Upper Second street is very low with nervous prostration, with which he has suffered for eighteen months. He is 62 years of age.

2000 Smilax

First-class 3-inch stock, $2.50 per 100; $20 per 1000.

THE E. HIPPARD CO.,
.....YOUNGSTOWN, OHIO.

SPECIALTIES IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.
Prices low. Send for list.
WOOD BROTHERS, FISHKILL, N.Y.

CHRYSANTHEMUMS!

Standard varieties. $2 50 per 100. Our selection.
BOUCAINVILLEA G Sanderiana, 3-inch pots, $1 50 per doz ; $10 00 per 100.
CYCLAMEN, white, pink, red and white crimson eye, 2½-inch pots, $5.00 per 100.
Cyperus Alternifolius, 2½ inch pots, $2.50 per 100.
CREVILLEA ROBUSTA, $2 50 per 100.
NATHAN SMITH & SON, Adrian, Mich.

CHOICE VIOLET STOCK!

Violets from 2½-in. pots, A-1 condition. Farquhar, Marie Louise and Lady Campbell, $3.00 per 100; $25.00 per 1000.
ROSES Brides and Maids, in 3-in. pots.....$4.00 per 100.
CRABB & HUNTER, Grand Rapids, Mich.

CARNATIONS H. WEBER & SONS, Oakland, - Md.

FIELD... GROWN CARNATIONS.

READY SEPTEMBER 1st.

FINE, HEAVY PLANTS.

	Per 100.		Per 100.
New York—deep cerise pink	$10.00	Empress—crimson	12.00
White Cloud—white	12.00	Mrs. G. M. Bradt—variegated	9.00
Bon Ton—scarlet	10.00	C. A. Dana—silvery pink	8.00
Mrs. Jas Dean—silvery pink	12.00	Mayor Pingree—yellow	8.00
Gold Nugget—yellow	12.00	Victor—deep pink	8.00
John Young—snow white	10.00	Flora Hill—white	8.00
Mrs. F. Joost—pink	10.00	Wm. Scott—pink	6.00
Argyle—deep cerise	12.00		

KENTIA BELMOREANA—6-in. pots, 24 to 28 inches high, 6 to 7 leaves, $15.00 to $24.00 per dozen; 5-in., 20 to 24 inches high, 5 to 6 leaves, $12.00 per dozen

KENTIA FORSTERIANA—6-in. pots, 24 to 30 inches high, 5 to 6 leaves, $12.00 to $18.00 per dozen; 5-in. pots, 20 to 24 inches high, 4 to 5 leaves, $9.00 to $12.00 per dozen.

ASPIDIUM TENSEMENSII—We will have a fine stock of this very hardy Fern, in 3-in. pots, suitable for fern dish centers. This is one of the best plants for that purpose, as it is hardy and enduring and gives general satisfaction.

THE COTTAGE GARDENS, Queens, N. Y.

GERANIUM
"MARS"
Stock plants ready after Sept. 1st. Orders filled in rotation.

Henry Eichholz,
FRANKLIN COUNTY, WAYNESBORO, PA.

CARNATIONS
PINGREE
ARMAZINDY
AND TRIUMPH
Field-grown. Ready now. Write for prices.
GEO. A. KUHL, Pekin, Ill.

Field Grown Carnations. FINE BUSHY STOCK.
TIDAL WAVE $4.00 per 100
LIZZIE McGOWAN 4.00 per 100
JUBILEE 5.00 per 100
Stock limited. Order quick.
LAKE GENEVA FLORAL CO.
Lake Geneva, Wis.

CARNATIONS
F. DORNER & SONS CO.
La Fayette, Ind.

FIELD GROWN **CARNATIONS.**
All the best varieties ready in September.
GEO. HANCOCK & SON, Grand Haven, Mich.

Carnations

Strong, Healthy, Field Grown Stock...

		Per 100
1500	Daybreak, light pink	$4.00
1200	Jubilee, best red	8.00
700	Lizzie McGowan, white	4.00
700	Silver Spray	4 00
300	Mayor Pingree, variegated yellow	6.00
300	Morello, scarlet	4.00
500	Portia, red	4.00
350	Ivory, white	4.00
300	Tidal Wave, dark pink	6.00
200	Wm. Scott, pink	4 00
125	Della Fox, pearl pink	4.00

VIOLETS Strong, field-grown @ $4.00 per 100.
2500 Marie Louise, double blue.
500 Swanley White.
300 California.
Samples mailed on receipt of stamps to cover mailing.
L. L. MAY & CO., ST. PAUL, MINN.

CARNATIONS! Field-Grown..
Ready September 1st and later.
2000 Lizzie McGowan, 500 Silver Spray, 500 Ivory, 1000 Wm. Scott, 500 Morello, 300 Emily Pierson, 500 Daybreak, 200 Goldfinch....
If you want any field-grown plants this fall, write me before you buy and get prices on this lot.
ADDRESS CHAS. CHADWICK,
Lock Box II, - GRAND RAPIDS, MICH.

Choice JUBILEE and PIERSON **CARNATIONS,**
in 3-inch pots, at $4.00 per 100.
Also SMILAX, in 3-inch pots, at $3.00 per 100.
ROSES in 3-in. pots, Brides, Siebrecht, Meteor. in 2½-in. pots, Maids, Brides, Beauties.
Send 50c or $1 00 for samples and prices to
GEO. A. KUHL, PEKIN, ILL.



NEW CROP PANSY!

Vaughan's "International"

Received the only reward for Mixed Pansies at the World's Fair. It is today better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. **Price, per oz., $10; 1-2 oz., $5; 1-8 oz., $1.50; trade pkt., 50 cts. (less 10 per cent for cash.)**

Vaughan's "Giant Mixture"

This mixture is specially made up by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had in any other way. If your trade demands large flowers there is no better mixture. **Price, per oz., $4.00; 1-4 oz., $1.25, 1-8 oz., 70 cts., large trade pkt., 50 cts.**

GIANT TRIMARDEAU, Mixed, oz., $1.00; ¼-oz., 30c; pkt., 10c.
"CHICAGO PARKS BEDDING" MIXTURE, oz., $1.00; ¼ oz., 30c; pkt., 10c.
SEPARATE COLORS—For price of these see Special Pansy Seed Circular, sent on application.



NEW SEED OF

Cyclamen Persicum Giganteum

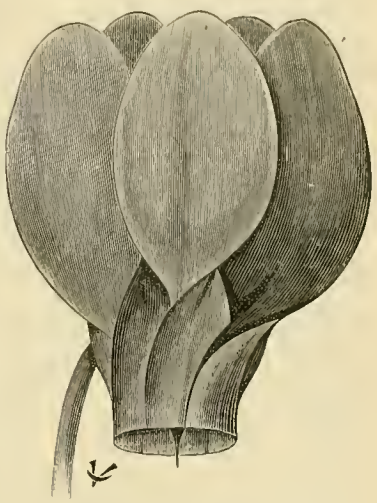
IN THE FOLLOWING SEPARATE COLORS:

Pure White, Bright Crimson, White with Crimson Eye, and Rose, (Von Marienthal.)

This Cyclamen seed has been grown especially for us by a most conscientious florist and we know that it will give entire satisfaction. Please favor us with your order for seed of this salable plant, at the very low price of . . .

$5 00 per 1000 seeds: 100 seeds, 75 cents.

Our Exclusive List of Seeds of Perenniels Sent On Application.



Vaughan's Seed Store

14 BARCLAY STREET, NEW YORK — 84-86 RANDOLPH ST., CHICAGO

CHINESE

PRIMROSES!

15,000 Strong 2-inch Pots, $2.00 per 100.

PANSY SEED

½-oz., $2. Oz., $3.50.

CASH WITH ORDER.

JOS. H. CUNNINGHAM,

DELAWARE, O.

SMILAX PLANTS.

EXTRA STRONG.

2½-in. good bushy plants nearly ready for shift, $1.00 per 100; $8.00 per 1000. Sample by mail, 10c. Cash with order please. Write for prices on large lots. Will exchange some for rose bushes, small Adiantums, Asparagus or any good stock.

R. KILBOURN, Clinton, New York.

Good Smilax to make room. 12½ cents per full string. Express prepaid..... Orders filled on short notice. Cash with order, please.

HENRY C. SCHWIEMANN, Danvers, Ill.

We like to have you tell our advertisers that you read our paper.

Roses and Chrysanthemums

GOOD STOCK

BRIDES, MAIDS, METEORS,
3-in., $4 per 100; $35 per 1000; 4-in., $5.50 per 100.

BEAUTIES,
3-in., $5 per 100; $45 per 1000; 4-in., $6.50 per 100.

2½-in. stock of Glory de Pacific, Maud Adams, Lady Fitzwigram, Bergmann, Bonnaffon, Robinson, Modesto, Perrin, Viviand-Morel, Mand Dean, Maud Adams, Emil and Gretchen Buettner, Yellow, White and Pink Jones, D. Spaulding, Lottie Berry, Henderson, Crawford, Snowball, Defender, Mayflower, Thanksgiving, Withers, Murdock, Golden Trophy, M. M. Johnson, Sunderbruch, Merry Monarch, Marquis de Montmort, price $3.00 per 100.

Poehlmann Bros., Morton Grove, Cook Co., Ill.

KLONDIKE COLEUS

	Per 100
Rooted cuttings ready.....	$1.50
Asparagus plumosus, 2½-inch.....	5.00
" Sprengerii, 2½-inch.....	6.00
Cyperus (Umbrella Plant), 2½-inch.....	2.50
" " " 3-inch.....	3.00
" " " 6-inch, $2 per doz.	
Ferns, assorted, 5 and 6-inch.....$2.50	"
Adiantum cuneatum, fine, 5-6 in. $2, $2.50	"
Rubbers.....6-inch.....$5.00	"
Nephrolepis (Boston Fern), 9-in.. $1.00 each.	
Grevillea robusta, 2¼-inch, strong.....	5.00
Geranium S. A. Nutt, 2½-inch.....	2.00
" Mme. Bruant, 2½-inch.....	3.00
" 50 other varieties, new and old, $2 to 6.00	

Stock A No. 1. Cash please.

CARL HAGENBURGER, West Mentor, Ohio.

Please mention the American Florist

At Your Own Price.

1000 Deutzia gracilis...2½-in. pots.
500 Pelargoniums.....2½-in. pots.
500 Allamanda.....2½-in. pots.
500 " 4-inch pots.
500 Swainsonia.....4-inch pots.
1000 Begonias, 16 vars. 4-inch pots.
1500 Magnolia grandi. 2½-in. pots.
1500 Grapevine, 5 vars. 2½-in. pots.

☞ This stock must go to make room.

LAMBERT BROS.,

555 E. Fair Street, ATLANTA, GA.

SPECIAL TO SEPTEMBER.

Our **SMILAX** must be planted out or potted up right away. All orders received before Sept. 1st will be filled at the nominal price of 75c per 100; $5.00 per 1000. **Cash with order.** Bear in mind these are extra strong plants out of 2-in. pots which makes a great saving in freight compared to 2½ in. pots and are every way as good. Order at once and save money... **South Side Floral Co.,** Springfield, Ill.

CHOICE VIOLET PLANTS

Marie Louise.

Large field grown, healthy stock, $5.00 per 100; $40.00 per 1000.

J. W. DAVIS, Morrison, Ill.

Mention the AMERICAN FLORIST when corresponding with an advertiser.

Tacoma, Wash.

The annual sweet pea exhibition at McCoy's, surpassed anything of the kind ever given in this city or the northwest. The store was artistically decorated with palms, wild ferns and white ganze which served to show off the thousands of sweet peas most advantageously. The sixty-two different varieties shown were of the best and all grown to perfection. Most prominent among the new varieties were two handsome specimens grown by Mrs. Lena W. McCoy and which have not yet been sent abroad. The favorite of these two, very fittingly named Tacoma, is marvelous in its beauty and in coloring is not unlike the grand old mountain of the same name whose crest, covered with perpetual snows, takes on a delicate roseate tinge when kissed by the setting sun. The other home grown specimen is a dainty new pink, self colored. The visitors to the exhibit were requested to suggest a name but out of the great number given one has not yet been selected. Patriotic names seemed to take the lead. The invitation cards were in the national colors, white envelopes tied with red ribbon and sealed with blue wax.

M. B. P.

Wilmington, Del.

The florists here have had a fairly good season, although there was little profit in the bedding plant trade. The backward spring made all the growers fear that they could not sell out, and down went the prices.

W. H. Vance is building two new carnation houses, each 20x100, even span, and one general house 10x100. He is also putting in a new fifty-horse power boiler. Herman Wolff, Mr. Vance's capable foreman, is superintepding the improvements and is taking good care of about 17,000 carnation plants which are in the field. They are in fine condition, although the protracted hot dry spell was hard on all outdoor stock. A good rain last week saved a great deal of money for the growers, as it came when it was most needed. Daybreak, Victor and Portia are the best in the stock under Mr. Wolff's care.

Rollo & Son are soon to take the greenhouses recently vacated by De Voight & De Wilde.

John! THE PANSY MAN

THAT'S WHAT THEY CALL ME.

Fresh seed now ready. J. B.'s Challenge is all that the word implies. TRY IT! Good percentage of light colors. Large trade pkt., $1.00 cash.

JOHN BEIMFORD, WILTON JUNCTION, IOWA.

Mention American Florist.

Pansies Worth Raising.

NEW SEED.

As good as ever: 3-16 oz. $1.00; 1 oz. $4.00.

Cash with order.

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

PANSY SEED. STRICTLY FRESH.

French and German crops, oz $7.50; ½ oz. $3.75; ¼ oz. $2.00; pkt. $1.00

BEDDING PANSIES, per oz. $4.00; pkt. 50c.

J. L. SCHILLER.

404 East 34th Street NEW YORK,

ZIRNGIEBEL'S GIANT PANSIES "Huge jewels of velvet and gold."—*Boston Transcript.*

AWARDED A SILVER MEDAL AT BOSTON,

are the finest strains up to date, either here or abroad. Our seed this season is from extra quality flowers, superb coloring and largest size.

THE GIANT FANCY STRAIN, in trade packets of 600 seeds, at $1.00.
And THE GIANT MARKET, 2000 seeds, for $1.00 also.

SEEDS TESTED AND SATISFACTION GUARANTEED.

Plants of the above strains for sale at the same rate as the more common varieties. Giant Market, $5.00 per 1000; Giant Fancy, $10.00.

With our new system of packing, plants can be sent any distance.

Plants for Sale after Sept. 1st.

DENYS ZIRNGIEBEL, Needham, Mass.

Herr's Pansies! BUY THE BEST. Seed at $1.50 per ¼ oz. Plants, 75c per 100; $4 per 1000.

SMILAX Fine plants from pots at 75c per 100; $5.00 per 1000. . . . Sample plants for 10c.

ALBERT M. HERR, = Lancaster, Pa.

GIANT PANSY SEED.

The finest of all the mammoth flowering varieties. No better grown; carefully selected; very large flowers, of perfect form and choice colors. All my florist customers praise this strain very highly. I should be pleased to have the florists of America give my home-grown Pansy seed a trial to prove its superiority over the so-called imported fancy seed. Grown only in mixture. Per trade pkt. of 3500 seeds $1.00; half pkt. 50c. A pkt. of the new Forget-me-not "Jewel" added to every order.

JOHN F. RUPP, Shiremanstown, Pa.

New Pansy Seed.

	Trade pkt.	1 oz.
Mitting's giant flowering	50c	$4.00
English, finest mixed	25c	2.00
French, " "	25c	2.00
Bugnot, " "	50c	4.00
Boucharlat	35c	3.00
Odier	35c	3.00
Cassiers	35c	3.00
Trimardeau, mixed	35c	3.00
" Parisian, large strained	35c	4.00
Lord Beaconsfield	25c	2.00
Striata Grandiflora	30c	2.50
Candidissima	30c	2.50
Faust	25c	2.50
German, large mixed, ¼ oz. at 1 oz. rates	30c	2.50

PANSY PLANTS.— Mitting's giant flowering in bud, 50 cents per 100; $5.00 per 1000.

CARNATION PLANTS.

Flora Hill, Mayor Pingree and C. A. Dana at $6.00 per 100; fine stock. Triumph and Armazindy at $5.00 per 100.

FLOWERING BEGONIAS in 10 varieties, 2¼-inch, $2.00.

THE MORRIS FLORAL CO.

Morris, Ill.

SEED! **PANSIES** SEED!

Roemer's Superb Prize Pansies, improved strain, new crop, ready now. This new mixture is saved from the very finest selected plants from all leading novelties of art colors, without doubt the finest strain in the market to-day. Mixed, per pkt of 3000 seeds, $1.00; ¼ oz., $1.50; ½ oz., $2.75; 1 oz., $5.00. White, yellow, black and blue, in separate colors, $1.00 per pkt. of 3000 seeds.

CASH WITH ORDER.

PETER BROWN, - Lancaster, Pa.

Grower of Extra Fine Pansies.
Plants ready Sept. 15th.

PANSY SEED. If you want the finest large and fragrant Pansy flowers try Woodbury's noted seeds.

A FINE ASSORTED COLLECTION, 50c.

Finest German and giant-flowered French strains, blended, or either separate, 2000 seeds; 50c.; ¼ oz., $1.00; oz., $4.00. List free.

DAVID B. WOODBURY,

PANSY SPECIALIST, South Paris, Maine.

ROEMER'S Superb Prize Pansies

The finest strain of Pansies in the World.

INTRODUCER AND GROWER OF ALL THE LEADING NOVELTIES.

Highest Award Inter. Exhibition at Hamburg, 1897. Catalogue free on application.

Fred. Roemer,

Seed Grower, - QUEDLINBURG, GERMANY.



H. Wrede,

LUNEBURG, GERMANY.

PANSY SEED.

144 First Prizes, the highest awards World's Fair, and Hamburg, 1897.
1000 Seeds, finest mixed, 25c.
1 oz. " " " $3.75

☞ Price List on application. Cash with order.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at $1.00 each.

M. B. FAXON,

Lock Box 1528. BOSTON, MASS.

Correspondence solicited.

PANSY SEED Large Flowering.

Do you want to grow the finest Pansies, if so, buy the JENNINGS STRAIN.

Always reliable. None better. Very finest mixed, $1.00 per pkt. of 2500 seeds; $6.00 per ounce. White, yellow, black, blue, red, pink and lavender in separate colors, $1.00 per pkt. The above all grown from very finest stock. Cash with order.

E. B. JENNINGS, L. B. 254, Southport, Conn.

Grower of the Finest Pansies.

Have you seen our 1898 Directory? It lists every florist in North America.


J. MANZ & CO.
DESIGNERS, ENGRAVERS AND ELECTROTYPERS.
The Largest
ENGRAVING ESTABLISHMENT
IN THE WORLD
150 SKILLED
ARTISTS AND ARTISANS
195 TO 207 SO. CANAL ST.
AND
160 ADAMS ST.
CHICAGO.
MANZ
& CO.
J. MANZ

Des Moines, Ia.

Business has been very dull here for the past month, far duller than usual. No additional glass is being put up and the only activity is in the fields of carnations, which are looking well and promise unusually good plants for fall. W. L. Morris grows virtually all the roses and chrysanthemums which are sold here. He has an establishment of 30,000 feet of glass and feels that the prospects for fall trade are good, as business in general is excellent, and his stock has started unusually well this summer. Des Moines will be well represented at Omaha, as already a half dozen have announced their intention of attending the convention.

The second annual picnic of the Des Moines Florists' Club was held at Union Park July 28. Those who did not attend missed a fine picnic and grand feast. Various games were participated in by old and young. Twenty-four sat at the supper table and one ran around so with the lemonade that he was not counted.

Helena, Mont.

Chas. Horn is completing a new carnation house 16x100 and reports July business above the average.

Mrs. Wells has made a number of improvements in her premises. Her roses are in the "pink of condition" for winter.

Mrs. Mattie is improving the shining hours by laying in a supply of fuel for the coming winter.

T. E. Mills and family, of the State Nursery Company, spent a few days rusicating at Boulder Hot Springs.

W. Arthur Judges spent a month's vacation at Portland and Puget Sound points. While on his trip he visited a number of establishments in the Queen's country, at Victoria, B. C., where he found methods in vogue quite different from those employed in this part of the world, partly owing to nationality, and partly to natural and climatic conditions.

A. J.

UTICA, N. Y.—Forest Hill Cemetery is in splendid condition, the display of plants having never been excelled. One Sunday five persons were arrested for pilfering the blooms.

COCOA NUT FIBRE!
By the Bag or Carload.
Salem Cocoa Nut Fibre Co.,
W. L. WARD, MGR., Salem, Mass.

Sulpho-Tobacco Soap
Universal Insecticide
For Flowers, Trees and Animals.
Recommended and in use by the foremost florists and nurserymen in the land.
For Sale at the Seed Stores.
ROSE MFG. CO.
NIAGARA FALLS, N. Y.

When writing mention American Florist.

WOOD LABELS AND PLANT STAKES.
WE SOLICIT INQUIRIES FROM
Seedsmen and Dealers in Florists' Supplies.
REMEMBER THE NAME! BENJAMIN CHASE, Derry, N. H.

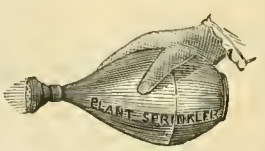
GALVANIZED STEEL WIRE PLANT STAKES FROM $2 PER 1000 UPWARDS
H. F. LITTLEFIELD, WORCESTER, MASS.

Tobacco STEMS DUST EXTRACT
BOTTOM PRICES.
VAUGHAN'S SEED STORE,
Chicago New York.
Always mention American Florist.

THE BEST FOR ALL Florists' "ROSE LEAF" EXTRACT OF TOBACCO INSECTICIDE
For Sale By Seed Stores
For Free Pamphlet write to
LOUISVILLE SPIRIT CURED TOBACCO CO
LOUISVILLE, KY

A material has been discovered for glazing which after thorough testa has been proven far superior to putty; it is called
MASTICA.
It is not affected by extremes of weather, and is thus especially adapted for greenhouses, etc. Send for descriptive circular of Mastica and Mastica Glazing Machines.
F. O. PIERCE CO.,
Sole Manufacturers
170 Fulton Street, NEW YORK.

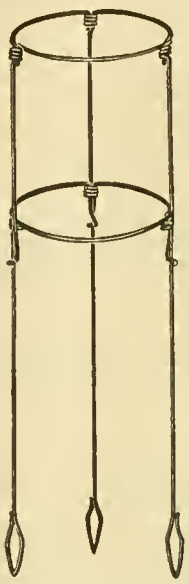
"We Kill Weeds Scientifically" How?
... ADDRESS THE ...
FAIRMOUNT CHEMICAL LABORATORY
N. W. Corner Broad Street and Fairmount Avenue,
PHILADELPHIA, PA.

Scollay Sprinkler....
INDISPENSABLE
J. A. Scollay, Maker,
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VAUGHAN'S SEED STORE, Gen'l Western Agents.
84 Randolph St., CHICAGO.

Saw Your TOOTHPICKS.
A hard wood vise that holds a box of toothpicks so that they can be sawed in two quickly and without spilling.
Mailed on receipt of 65 cents.....
HAKES & SON, Ilion, N. Y.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

The MODEL Extension Carnation Support

QUEENS, N. Y., Feb. 16, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97
MR THERON PARKER,
Dear Sir:—Your wire stake is certainly a gem Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes
AT LOWEST PRICES.
Write for Prices, Circular and Special Discounts for Early Orders.
The Model Plant Stake Co.,
THERON PARKER, Mgr., Inventor and Patentee,
22 MORTON STREET, BROOKLYN, N. Y.
Please Mention The American Florist.

NIKOTEEN
IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE
DOES NOT INJURE THE MOST SENSITIVE PLANTS- ENDORSED BY PROMINENT FLORISTS- USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT- 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN ----CIRCULAR FREE-
SKABCURA DIP CO. CHICAGO.
Kill AND SAVE the THE BLOOMS Bugs!
QUICKLY DOES IT.
Mention American Florist.

HAMMOND'S SLUG-SHOT
1 SLAY BUGS
1880 1897
INSECTICIDE & FUNGICIDE

"CATTLE COMFORT" keeps Cows and Horses free from flies, gnats, etc.
SLUG SHOT KILLS SOW BUGS
Preserves vegetation from destruction by insects, preserves foliage and is always safe. In use since 1880. Is sold *by dealers in seeds*. For pamphlet on Bugs and Blight, address
B. HAMMOND, Fishkill-on-Hudson, N. Y.

KRAFT'S PLANT TONIC

99% XX

It Kills the Harrisii Lily Mite

C. J. Stromback, of Lincoln Park, Chicago, says so.

It Kills Black and Other Aphides

The Cornell University Experiment Station authorities, Ithaca, N. Y., say so.

It Kills Mealy Bug & Prevents Carnation Rust

James Leake, gardener to B. Eldredge, Belvidere, Ill., says so.

It Kills Palm Scales...

August Jurgens, Herendon St., Chicago, says so.

It kills all insect enemies of plants, prevents disease in all its varieties and imparts vigor to the growth without risk of injury to the most delicate forms of vegetation.

This preparation is non-poisonous. We guarantee the above to be correct in every particular. A trial of a twenty-five cent bottle will convince you of the accuracy of all our claims for this remarkable insecticide, fungicide and tonic.

Kraft Plant Tonic Co.

ROCKFORD, ILL.

Steam Pipes in a Hot Water System.

ED. AM. FLORIST:—Having my greenhouses heated by steam, and being desirous of changing to a hot water system, I wish to know whether (1) I can safely use 1¼-inch pipes for the latter, and (2) how many additional 2-inch pipes will be needed to maintain the same temperature as under steam? (3) I wish also to know whether a 2-inch pipe connecting with the top of the boiler, and a 1¼-inch connecting with the bottom, will serve the purpose of flow and return respectively? (4) May gas pipes be used for the vents and how many will be necessary? W. R.

The data furnished is not sufficient for a definite answer. (1) With an elevated tank and flow pipe 1¼-inch pipes can be used with a hot water system, but they are not desirable in houses much over fifty feet long, unless the system is run under pressure. (2) If the present pipes are sufficient with low pressure steam, it will probably answer if one-half as many 2-inch pipes are added for hot water. (3) This question cannot be answered definitely without knowing the size of the house and the desired temperature, but the return is at most only large enough for 400 linear feet of 1¼-inch pipe and to carry that amount should be increased at the boiler to 2 inches. (4) Gas pipes will answer for the vents, but they should be carried above the level of the tank. There should be a vent at the highest point of each coil. L. R. TAFT.

Jadoo and Cocoanut Fibre.

ED. AM. FLORIST:—Seeing your comments on cocoanut fibre and jadoo I got some of both and like them. But, if the experience of others is like mine, there must be a reform in the methods of shipment, at least for the fibre. To begin with, as shipped the cocoanut fibre contains seventy-eight per cent of water, which dries out in a few days on exposure to the air in a dry place, This makes the freight five times as much as necessary. Mine was *marked* fertilizer but *billed* as wood fibre, taking a freight rate of $24.80 per ton. An express company's receipt for it was sent, causing a pleasing anticipation of express rates ($120 per ton) until it arrived. At present it is somewhat a luxury; if the water could be squeezed out of it, it might very well become a necessity. T. L. MEAD.
Florida.

EAST BROOKFIELD, IND.—J. H. Le Favour is erecting a new propagating house nearly 200 feet long. He made a great success of forcing cucumbers last winter, and will devote a great deal of his time to this crop hereafter.

Steam and Hot Water Heating

ECONOMICALLY AND PERFECTLY INSTALLED BY

HENRY W. GIBBONS

134, 136, 138 Liberty Street, NEW YORK, N. Y.

CATALOGUES AND ESTIMATES FREE. EXPERT ADVICE FURNISHED.

Columbia Plant Tubs (Patented.)



MADE OF CYPRESS. NEVER DECAY. NEVER FALL APART.

SUCCESSORS TO HOME RATTAN CO.

THE INVALID APPLIANCE CO. Sole Manufacturers 339-341 Clybourne Ave. CHICAGO

Standard Flower Pots...

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

☞ Write us before placing your orders elsewhere.....

CAMBRIDGE TILE MFG. CO., Covington, Ky.



STANDARD FLOWER POTS FERN PANS and AZALEA POTS..

OLD RELIABLE MAKE OF Elverson, Sherwood & Barker.

Write for price list. Address

PITTSBURG CLAY MFG. CO., - New Brighton, Pa.

Standard Flower Pots.

PRICE LIST OF STANDARD POTS:—

1¾-in. pots, per 1000			$3 00	6-in. pots, per 100			$22.00
2	"	"	3 25	7	"	"	35.00
2¼	"	"	3 50	8	"	"	50 00
2½	"	"	4 00	9	"	"	75 00
3	"	"	5 00	10	"	per 100	10 00
3½	"	"	7 25	11	"	"	15 00
4	"	"	9 00	12	"	"	20 00
5	"	"	13 80	14	"	"	40 00
				16	"	"	75.00

Seed and bulb pans, same price as pots Saucers to match pots, one-half price of pots. Ten per cent off for cash with order Send for price list of Lawn Vases, Hanging Vases and Cylinders. Address

HILFINGER BROS. POTTERY, FORT EDWARD, N. Y.

OR.... AUGUST ROLKER & SONS, AGTS., 52 DEY STREET. - NEW YORK CITY.



BRANCH WAREHOUSES:
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THOSE RED POTS

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y, DETROIT, MICH., 490 HOWARD ST.

HARRY BALSLEY, Rep.



GEO. KELLER & SON, MANUFACTURERS OF

Flower Pots.

Before buying write for prices.

361-363 Herndon Street, near Wrightwood Ave., CHICAGO, ILL.

Standard FLOWER Pots

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST,

Station M, N. E. WASHINGTON, D. C.

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FLOWER POTS

ALL KINDS.

STANDARD POTS A SPECIALTY

List and SAMPLES FREE.

J. G. SWAHN'S SONS, P. O. Box 78, MINNEAPOLIS, MINN.

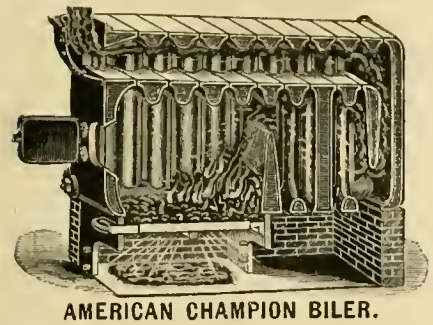
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Good Railroad Facilities For shipping. Special Attention Given to Mail Orders, and Special Sizes Made to Order.

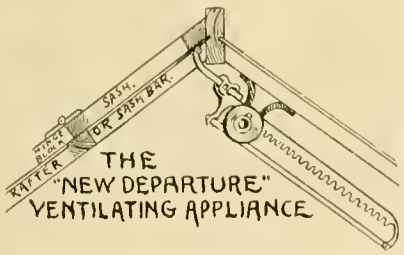
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NORRISTOWN, PA.

Price Lists Furnished on Application.



AMERICAN CHAMPION BILER.



THE "NEW DEPARTURE" VENTILATING APPLIANCE

Best and Cheapest on arth.



This iz mi Picter.

I take mi pen in hand to tel the Florists that i hev got up sum good things fur them to suze in green-houses, i aint mutch on Buck Lam in, but i am sum at inventin things fur to help Florests out.



THE EVERLASTIN HINGE.

Now if u use one uv mi Bilers u will save 1/2 ure Kole Bil. uze 2 an u will save it awl an if u git 3 u will have Kole to Sel. i have the best an chepist Sash liftin machine, an the Best Sash Hinges what is, Rite me an i will tel u al about em. mi name is, J. D. Carmody. i live in Evansville Indiana, which is clase to Posey Kounty.

INVALUABLE FOR THE GREENHOUSE

TWEMLOW'S
Old English Glazing Putty
Semi-Liquid. Used in Bulb or Machine.
IN GALLON CANS AND LARGER PACKAGES.
It has no equal probably for Greenhouse work.....

Hammond's Paint.
GREENHOUSE WHITE.
For 20 years many Florists throughout the United States have used this paint.
The purest and most durable that can be made.
At prices to the craft that will pay to use it.
BENJAMIN HAMMOND, Fishkill-on-Hudson, N. Y.

—THE—
GORTON SIDE FEED Boiler
is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.
Further information on application.
GORTON & LIDGERWOOD CO.
96 Liberty Street, NEW YORK.

J. H. STRUCK & BRO. LOUISVILLE, KY.
LOUISIANA Cypress Green House Material.
RED CEDAR
WRITE FOR ESTIMATES.

FOR SALE CHEAP.
GLASS for Greenhouses, Conservatories, Hot-beds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. THE REED GLASS & PAINT CO., 466 W. Broadway, NEW YORK.

It is good business policy to mention the
....AMERICAN FLORIST
when you write to an advertiser.

ARE YOU BUILDING or... REPAIRING?
Mastica, $1.00 per gallon.
Liquid Putty, 25-lb. can $1.50, ready to use.
Scollay Putty Bulb for applying Mastica or Liquid Putty, 85c.
Van Ryper's Glazing Points, per 1000 60c, by mail 75c.
Glass Cutters, steel roller, 15c each.
Mastica Glazing Machine, $1.00 each.
Ellis & Pollworth,
Box 75... MILWAUKEE, WIS.

Providence, R. I.

The responses to interrogations about business at this season are very monotonous, as, with the exception of a funeral order now and then, there is practically nothing doing. Many of the craft are taking advantage of the situation and making pilgrimages for recreation. Among others to leave their business in the hands of trusty subordinates is Walter S. Hogg, who is sojourning with his family at Saratoga.

The humidity of atmosphere has given vent and a deluge in two chapters has visited our city within a week; much damage being done by washouts, and causing carnations in low places to rot at the root.

A recent visit to the Rhode Island Greenhouses showed indications of a very promising crop of roses grown on budded stock. Mr. Miller has his carnations set and everything about the house has an air of cleanliness. They are about putting in two new tubular boilers in the place of two that were inadequate.

F. Macrae will head the list on chrysanthemums this year, judging from appearance of his stock at this writing. Chrysanthemum growing is no experiment with "Mac"; he manages to get the right hitch on varieties, as well as quality of flowers.

Good carnations are getting scarce. Asters are coming in small quantities and are not yet up to the standard.

There is a degree of uncertainty about a large delegation for the convention at Omaha from Providence. S. J. Reuter & Son, of Westerly, are the first to signify their intentions, but at the last call others will undoubtedly follow their good example. Rhode Island will surely be favorably represented. LITTLE RRODY.

Portland, Ore.

It is hot on the coast this summer. Ninety degrees in the shade is the regular thing here now and every now and then it goes up to 100°. Everybody is irrigating. It is either irrigate or dry up and blow away. This is to be expected for three months, and the other nine it rains as it did in the days of Noah. From forty-five to fifty inches is the average annual rainfall.

S. J. Lemmon is building a house 14x70 for smilax. This season he will plant 1000 calla bulbs, an equal number of Lilium longiflorum, 7 to 9, and about 3000 carnations, mostly Scott, McGowan, Albertina and Tidal Wave.

Trade here this summer has been discouraging; prices very low and small sales. Our city is too small for the amount of glass there is here. Martin & Forbes are our leading retail florists. Mr. Forbes is a "dandy." His face beams like the full moon and people will buy of him just to see his eyes sparkle. The The firm is talking of building some carnation houses at their place at Mt. Tabor.

P. Johnson wanted to sell his establishment when he thought that he was going to succeed W. G. Wallace as gardener at the city parks, but I think he is glad that he did not since Mr. Meyers picked the political plum.

Mr. Betts sold his stock, rented his place and went to Klondike. We hope he will come home a multi-millionaire.

A. Pfunder is our biggest and most successful florist. He has a very fine establishment.

Clark Bros. are wide-awake people and are making money. O. K.

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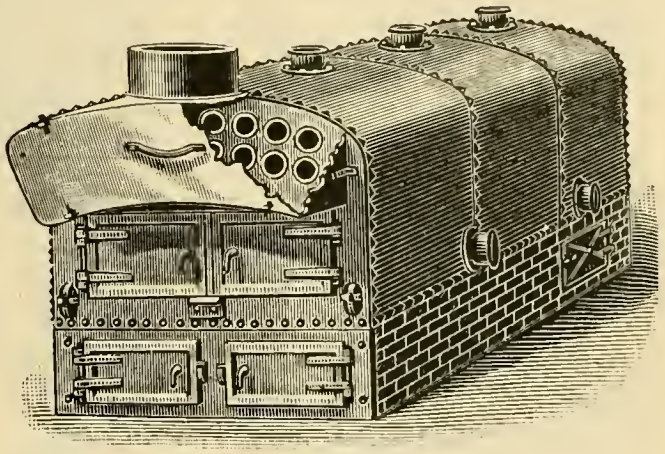
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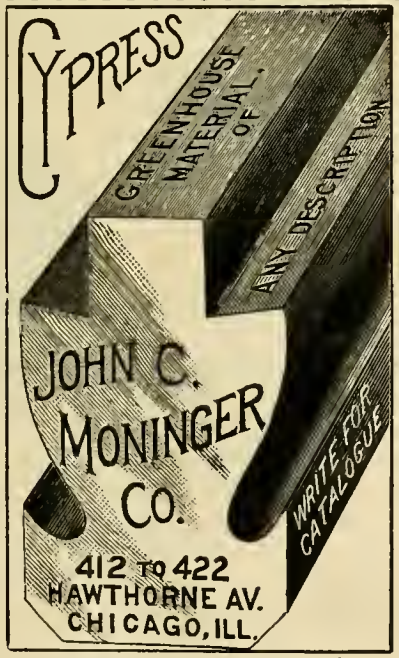
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Butte, Mont.

During the "slack" season the usual "getting ready" work proceeds with the Montana florists for the winter's business. The season for outdoor blooms is probably shorter in most parts of Montana than in any other state. While there are sections of the state where the altitude is much lower, and the outside season much longer, in most parts of Montana few roses are grown, or will successfully winter through outdoors. These natural conditions, however, have their good side in making the period of demand for inside grown stock extend virtually all through the year, and Butte, "the greatest mining camp on earth," has to ship flowers every day in the year.

Law Bros. & Day, who succeeded to the old established business of Mrs. Knox, report business very good. They frequently have days when such large orders come in that they are hardly able to take care of them satisfactorily. Their greenhouse stock is in good shape for the approaching winter.

The State Nursery Co. is doing its share of the business, and now have attained the enviable position of being able to supply nearly all their stock from their own plant at Helena, which with its increased capacity, is reaching out to nearly all parts of the state for business. A. J.

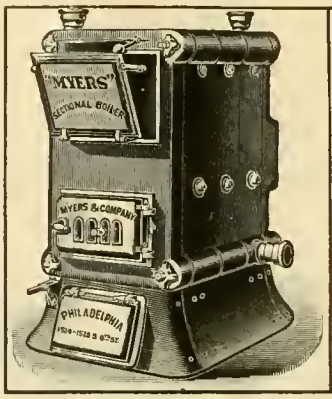
Springfield, Ill.

Business is rather slow at present and good flowers are scarce.

George Hansen has rented his greenhouses here and has gone to Pittsfield, where he has bought the establishment of Miss E. Graves.

Carl Rauth has built a new and thoroughly modern carnation house 18x75.

Bell Miller has just given the Herendeen Manufacturing Company the contract for a new steam heating plant to be installed in her greenhouses and dwelling.

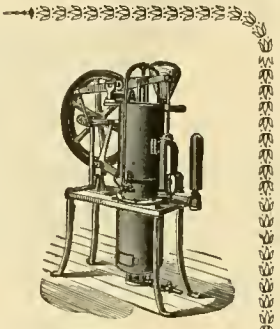


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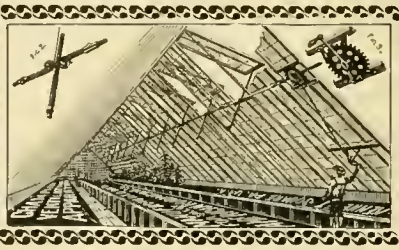


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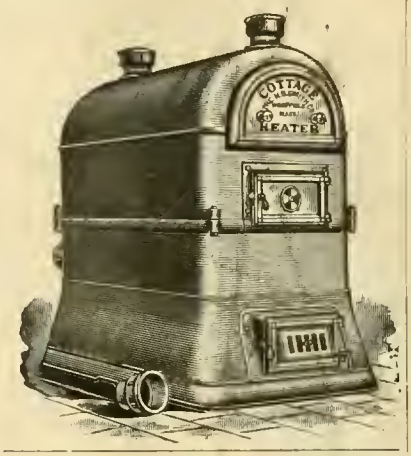
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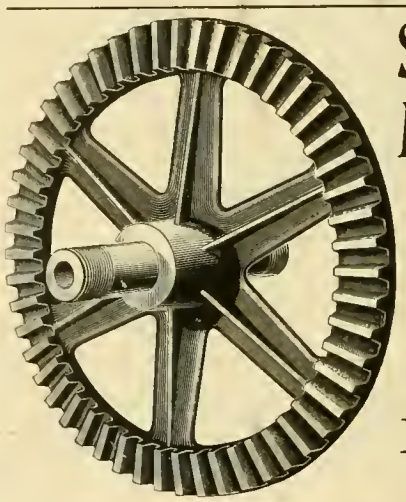
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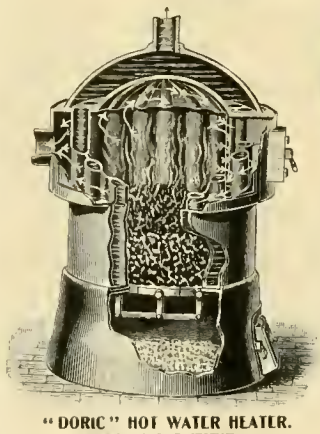
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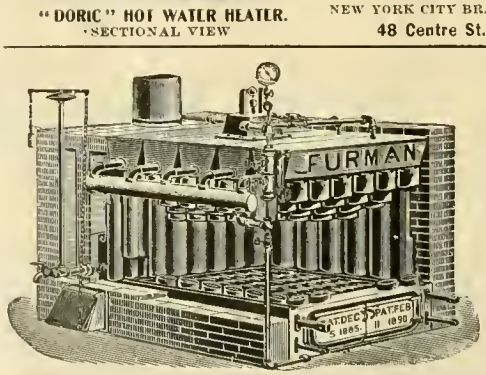
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Vol. XIV. **CHICAGO AND NEW YORK, AUGUST 20, 1898.** **No. 533.**

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fourteenth annual meeting will be held at Omaha, Neb., August 16-19, 1898.

OFFICERS-ELECT [to be installed Jan. 1, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898. WILMER D. SMITH, Adrian, Mich., secretary.

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THE OMAHA CONVENTION.

The fourteenth annual convention of the Society of American Florist opened at Omaha on Tuesday morning, August 16, 1898, with an attendance larger than was anticipated. The delegations from western sections were more numerous than early correspondence had led the committees to expect. The east did not turn out as in former years, but was, nevertheless, well represented. There were many women present.

A. Donaghue, Sr., president of the Nebraska and Iowa Florists' club called the convention to order and introduced Rev. Thomas J. Mackey, of All Saints church, who, in his invocation, prayed that those who improve the beautiful plants and flowers of God's creation may themselves improve and grow to the stature of perfect men.

Mayor Frank E. Moore, of Omaha, then welcomed the convention in a ringing address. He said in part:

Mayor Moore's Address.

GENTLEMEN OF THE SOCIETY OF AMERICAN FLORISTS:—It gives me pleasure as the representative of the citizens of Omaha to extend to you a cordial welcome to our city. As I look into the faces of the delegates here present I can readily believe that the very flower of your organization represents your society to-day. It has been said that "in eastern lands they talk in flowers," and if I but knew that mystic language I would express my sentiments on this occasion by presenting to the Society of American Florists a garland which would be redolent with the sweet perfume of hospitality.

We have had numerous societies and conventions meet with us this summer. Some have sought to develop a stronger physical manhood and womanhood, others have met to devise fresh advances in educational methods, others have discussed the possibilities of future development along technical lines, while still others have met in the cause of sweet charity. The Society of American Florists differs from all these in that it seeks to promote and enhance those beauties of nature which appeal through the eye to the æsthetic sense.

Gentlemen, I congratulate you upon the work which your society has accomplished. Let it be your object to aid nature, not to subvert it. The grace and symmetry of nature is better than the stiffness and heaviness of what is sometimes called art. The highest art in floriculture and horticulture is that which makes the most of nature. I have been pained occasionally when I have seen the stiffness, precision and exactness which have characterized the methods pursued in arranging the trees, shrubbery and flowers in some parks. Such parks are no parks at all. I believe that the influence of nature as expressed through the trees, the flowers and the green grass, has saved our cities more money in jails, reformatories and almshouses twice over than they cost. The person who delights to frequent the shady park and see Mother Nature face to face is no miser, for nature floods his heart with feelings of humanity.

We are very glad to welcome the members of the Society of American Florists because of what they are doing in their respective localities to comfort the bereaved, to cheer the sick, to give hope to the disheartened and to bring joy and contentment into the lives of rich and poor alike.

And now, gentlemen, to better express the welcome we would extend to you I present you with these golden keys of the city. Use them early and often and if they wear out I will furnish you with another pair.

I bid you welcome.

E. M. Wood's Response to the Mayor.

THAT IT MAY PLEASE YOUR HONOR:—The hearty kindness of your welcome, and the gracious terms in which it is expressed, sink deep into our hearts. Permit me to say, in the words of Hamlet, "Beggar that I am, I am even poor in thanks; but I thank you."

We are here today, sir, pilgrims from almost every state in the Union, and from cities of the bordering Dominion of Canada, who are proud to pay our annual tribute upon the altar of our patron Goddess, Flora, and to deliberate upon the welfare of the association which we have so much at heart. And I may perhaps be permitted to say, sir, that we have another claim upon your kindness, inasmuch as we represent, and this in itself is a proud distinction, the premier body of gentlemen, for which we have no less an authority than the immortal Shakespeare,

who said, "There is no ancient gentlemen but gardeners; they hold up Adam's profession, for he was the first that ever bore arms."

But, sir, in speaking of and for my professional associates, I would indeed prove ungallant were I to make no mention of the ladies who accompany us, who are a part and parcel of us, and who, in themselves, are the most enthusiastic, as well as the greatest lovers of all that is beautiful. Ah, sir, what could we do, and how could we get along without them?

It was a happy thought, as well as a wise and far-seeing provision, which induced us to make at the present time our sojourn in your famed, your hospitable, and your beautiful city, and we find ourselves more than delighted at being here present with you today. Why, sir, it seems but yesterday since you were a village, almost unknown, while today you are a thriving community, with untold wealth, and with a fame and a name which is carried to the uttermost parts of the world.

Your efforts to organize a Trans-Mississippi Exposition and its phenomenal success has filled us with admiration. To have made the attempt and to have succeeded after the great Chicago exposition required not only courage and energy but a confidence in your ability to accomplish so stupendous a work. It is a marvel.

I have said, sir, that nature has done much for you. Will you permit me to say, without egotism, that we are doing much for nature, inasmuch as we profess an art which aids as well as improves nature.

We are here, not alone for the purpose of carrying on the affairs of our association, but at the same time to show the glory of our art and to display, as we do from year to year, the strides we are continually making in the art of floral culture. It is a work worthy of all consideration, of all commendation and of all encouragement, and we beg for it the kindly countenance of all lovers of the beautiful, with the assurance that the aim will ever be to make the "thing of beauty a joy forever."

I am sure, sir, that for the brief time we shall be with you, our lines shall lie in pleasant places. For yourself, and the noble city, of which you are the executive, I beg you once again to accept our most profound thanks, and to rest assured that you and yours shall have an abiding place in our memories up to that supreme moment when for us time shall be no more.

President Gude's Address.

LADIES AND GENTLEMEN, MEMBERS OF THE SOCIETY OF AMERICAN FLORISTS:—Goethe, whose poetical imagination permitted him to strew "Flowers of Rhetoric" around and about him, as well as probe into the mystery of the metamorphosis of plants and flowers, and observe closely the evolution of shape, color, and function, is well entitled to his prerogative of such figurative generosity, but it never should be expected that "Flowers of Rhetoric" could ever be conceived, cultured, and culled by the president of the Society of American Florists and Ornamental Horticulturists, organized to deal with substance, not shadows, with real earth, and not with ethereal elements of poetry. And yet, who has more beautifully entered into the subject, in presenting an annual address to you, than our worthy and much loved president of a few years ago, brother W. R. Smith, and my immediate predecessor, Adam Graham, of Cleveland.

Therefore, in presenting to you this address, as a practical man fully imbued with all of the interests of our society, filled with the sense of realization as to its great importance now and in the future, I come with my greetings to you in practical words expressing practical thoughts.

First, I congratulate you upon the choice that you have made in your meeting place, enjoying, as you are, the generosity, kindness, and whole-souled hospitality of this growing city of the middle west, which, in comparison to its population, has demonstrated since it has been recognized as a city more "push" and enterprise than any other city in our country. It has opened its doors to assemblages of all kinds and natures, and entertained at its boards conventions, conferences, expositions, fraternities, and shrine caravans, which have made the name of Omaha known not only in our own country but throughout the civilized world. So to-day we must feel somewhat the pride of being the guests of not only those who are members of our society, but all who are interested in floriculture and in the progress and prosperity of this city, and it must be a gratifying fact for you all to realize that from every section of our country representatives have come in such large numbers to enjoy this reunion and the pleasure of being at Omaha.

The organization has been well favored this year in having a most efficient Executive Committee, which in the interim since the last meeting has been not only the deliberative, but likewise the legal body of our society.

It is usual that the Executive Committee shall hold its preparatory meeting prior to the annual assemblage of the society in the city in which the session is contemplated. For many reasons this custom was not followed and the meeting was held at the National Capital, with the hope that the presence of our representatives would have some influence upon Congress in securing action upon the national charter, which has been so long anticipated, and to which my predecessors have referred with a great deal of feeling and in terms of considerable eloquence. But legislation on this bill had to give way to war appropriations, "Free Cuba" speeches, and annexation treaties, so we submissively allow our matter, in sense of duty to our country, to go over until Congress meets again, when we are assured that it will be a fact and become a law.

I need not assure you of your many friends in Congress, both in the House and in the Senate, and that the object of chartering an organization such as ours has, to its great credit, become that of national consideration because it is of national interest. The sentiment, too, has found its way into the executive circle, and among the advisors of the president in his cabinet we have there also our champions. No greater friend, however, has ever been in public life than the present Secretary of Agriculture, James Wilson, who in response to the Hon. Redfield Proctor, of the U. S. Senate, addressed a letter which I cannot refrain from embodying here in full, because it expresses, in stronger language than I could possibly command, ideas and purposes which are clear in statement and convincing in reasoning, and I feel sure that you will certainly appreciate my reading it to you, coming as it does from one as able and as distinguised as Secretary Wilson.

April 28, 1898.

HON. REDFIELD PROCTOR,
United States Senate.

MY DEAR SIR:—Your favor of April 20th, enclosing a copy of Senate File 4415, "An Act to Incorporate the Society of American Florists and Ornamental Horticulturists," is received.

The object of the bill is to create a body corporate and politic in the District of Columbia, by the name of the Society of American Florists and Ornamental Horticulturists, for the elevation and advancement of horticulture in all its branches, and increase and diffuse the knowledge thereof; and the said Association proposes to report from time to time to the Secretary of Agriculture, so that their proceedings may be communicated to Congress.

I believe this is a useful and valuable act. The last Congress thought so; President Cleveland did not. This Association will operate along the whole line of elevating the taste of our people. I believe their work is a means of grace. It is healthful to people to ornament their homes, their lawns and their surroundings generally. A love of the beautiful was implanted in the hearts of all of us by the Master, who, when he was on earth, called our attention to the lilies and asked us to consider them. This Association proposes to cultivate that sentiment.

I am endeavoring to introduce new flowers into different latitudes of the United States, from wherever I can find them in the old world. The work of this Association will be helpful to the department, I have no doubt. We pay a great deal of money to foreign countries for bulbs, seeds, etc., because we love the beautiful. My work here is entirely utilitarian. I desire to have, and will have, through the wise appropriation of Congress, bulbs, seeds, etc., brought here from foreign countries and produced here, so as to save our people very large sums of money now being sent abroad for these things. I consult with certain of the gentlemen named in this act, with regard to these importations, and get much useful knowledge from them. The people will gratify their love for the beautiful in flowers and shrubbery, and I desire that these things be grown in the United States. The Bermuda lily is an illustration. We pay a very large sum of money to foreign countries for the bulbs of that lily. I have set technical scientific divisions of the department at work studying the diseases of that plant, and to get information for the people regarding the localities that may produce it at home, and save the money now paid out for it. While my main objects are the saving of money to the American people, and the procuring of information for our producers all along the line, so that they may produce more economically, I recognize the great assistance the department will get from these gentlemen, who study decorative plants, and so I would be greatly pleased to see you push this bill and encourage this Association by giving them a name and a place in our statutes and recognition by the United States. Very truly yours,

JAMES WILSON, Secretary.

This is not a matter of sentiment from this gentleman to gain favor of you and yours, nor is his interest measured by any glorification whatever that he might possibly get out of it, for he has demonstrated by his great practical work, his interest in agriculture, in horticulture and in floriculture, as through his instrumentality and his influence, and his practical work and encouragement, has the Ames Agricultural Institute at Ames, Iowa, his home, become the standard agricultural institution in our whole country. I say all glory to this worthy inspirer of thought and encourager of action in all that pertains to the subjects in which we are so heartily interested.

Never has there assembled anywhere to consider any matter a more intelligent, painstaking and interested company of gentlemen than those composing your Executive Committee that held its meeting in Washington. Every subject of interest to the society was considered, and many practical suggestions are the result of this conference. Among them is the suggestion, presented to you as the sentiment of the Executive Committee, to have certain new departments under the supervision of the society, which I take pleasure in submitting for your consideration.

The Department of Credit Information, the duty of which shall be to ascertain the financial standing and credit of persons in the trade, should be under the



WILLIS N. RUDD, PRESIDENT-ELECT OF THE SOCIETY OF AMERICAN FLORISTS.

control of a committee of three appointed by the president with the approval of the Executive Committee. This subject, to my mind, has its advantages and disadvantages. It may redownd to the credit of the organization to endeavor to keep within the great active working body of its members throughout the country a certain *esprit de corps*, with regard to honesty and fair dealing. Oftentimes, by reason of misrepresentation, much embarrassment and loss is caused to our members, and, indeed, to the outside world, all of which reflects in part upon the association at large. Integrity first in all things should be our motto, and that would cause all dealings of every nature and kind, and with every person, to be had with a due regard for honor. On the other hand, we might say that all who are members of our society possess sterling integrity and in the highest sense, and that for a moment to question financial standing and business intercourse is an undue and untimely interference in the affairs of private individuals. Such is the position that I should love to take upon this subject, but none of us are infallible, none of us are stronger than our weakest part. Temptation is a wily, seductive member of the cabinet of his satanic majesty, and who can gainsay his mysterious power and winning faculties when visited with full force upon some of our non-suspecting and susceptible members?

But especially do I commend to your favor the Department of Co-operative Purchase, the object of which is made manifest, as it will secure for the members of the society reduced prices upon greenhouse supplies, which can be afforded by the co-operative purchase in large quantities. This would be under the supervision of a special committee, but would put no responsibility whatever upon it in the matter, except in obtaining from the furnishers prices upon large quantities, and then to impart such information received to the members of the association who would enjoy such advantage as would arise therefrom.

There is also suggested a Legislative Department, which would have charge of all legislation, state and national, concerning the departments represented by our organization. A general committee could have sub-committees in every state in the union, which would be constantly on the alert for the advancement of our interests and present the same to the various legislatures. This would have an effect not only upon floriculture and tree-growing, but it would also have its influence in effecting the exportation rates to growers upon the various common carriers in our country.

Also, an Arbitration Department, which, as the name implies, would be for the amicable adjustment of controversies between members, saving oftentimes long litigation at court, and much notoriety of an unpleasant nature which would reflect not at all well upon the credit of the individuals engaged. This would be productive of peace and good feeling, and a committee appointed from your own members would have the interest of the individuals at heart and would settle all differences, whether financial or otherwise, with a due regard both to law and equity; and lastly, a Claim Department. This would have among its duties the adjustment of claims against transportation companies, which, to some of our members, would be a subject of considerable import. While in some sections the fairest treatment has been meted out by these companies to our organization, yet in other sections it has been simply a continuation of oppressive rates, surrounded by all the disadvantages of delay that can possibly come through incompetent service. It is a surprise to you, and was a surprise to the Department of Labor, when approximating the statistics of the amounts paid by florists for transportation, to find that it reached up into the great lines of figures that expressed many hundreds of thousands of dollars. So, therefore, a florist, while estimating the cost of the simplest flower produced by himself, is obliged to add oftentimes as much as twenty-five per cent to the cost in the item of transportation in sending it to his customer.

"Honor to whom honor is due" should be the motto in all honest emulation. The more difficult the prize, in the attainment of it the greater the reward; the stronger the foe, the greater the victory.

It has been suggested that our system of awarding certificates of merit and honorable mention is a little too lax, and awards have been made too freely and without that close scrutiny and just determination which should be devoted to the subject of awards. When the certificates are issued by this organization they should mean something, and the more difficult they are to obtain the more they will be appreciated by the holder and the more they will mean to the outer world. This may be regarded by you as a suggestion which, if it meets your favor, might at this session bring forth some definite action which may govern this matter.

While the general subject of floriculture is constantly before us, individually and collectively, I am of opinion that especial attention should be given to the bulb culture in this country, a business feature that would keep many thousands of dollars within our own domain and add greatly to one of the most lucrative and comprehensive products of our industry. The Roman hyacinth especially is commended to your consideration for personal devotion at home.

In the southwest we have a great state, Texas, as large as an empire (it is called the "Lone Star State"), sending forth at the proper season its sweet perfume of Cape jasmine, which, could it reach far enough, would waft its delightful odor over its sister states. Its climate and its soil are such that if a great Chinese wall or a mountain barrier shut off this state from the rest of our country, it could successfully grow almost everything that the earth produces. It is in about the same latitude as the islands of the sea around which now war's alarms are sounding, and its rich lands, widespread as they are, offer a welcome to our profession.

The tuberoses and the gladioli once were upon the import list, but now, as you well know, they are exported in great quantities to various countries, and bring the revenue therefrom this way instead of leaving it abroad. The crocuses, polyanthuses, and the narcissi are candidates for your kind solicitation and tender care.

The calla lily, which once knew only the confines of the narrow space of their pottery homes, now is reckoned as a free-earth, open-air California product, side by side with the freesias, which, under basking Pacific suns and fanned by the Pacific air, is successfully developed and grown. The Lilium longiflorum and L. Harrisii should also be sent from this country abroad, instead of having them seek their way to our shores. We will have, in the near future, araucaria factories, as we already have various rubber factories, not for rubber shoes nor mackintoshes, but the beautiful ficus, which is marvelously well grown by our well-known "Deacon" Harris, of Philadelphia, who was the first life member of our society. Forty years ago there were only eight Latania Borbonica palms in the United States; to-day there are upwards of three million as potted plants. It is said that only two of these palms have borne seed, one belonging to the Federal Government and the other to the Corcoran estate, both of them in Washington, District of Columbia, and from these two plants no less than sixty thousand young palms and seeds have been distributed throughout the cities and territories, which coming from the United States Botanical Garden may really be attributed to the one seeding plant rather than to the two.

I think also that generosity should be one of the virtues of the florist; that is, he should not be too narrow and selfish in the matter of discoveries. Being united for our common good, should entitle the widespread distribution of thoughts and ideas concerning plants and flowers in every particular, so that a new and rare plant in one section should give the benefit of its beauty and of its rarity to all interested in the art throughout the whole country.

The time will come when the flower that is "born to blush unseen" will be receiving the adulation of countless thousands of our people. The evolution of the field daisy, once a common weed, and the chrysanthemum, with its hundreds of varieties of gorgeous development, are probably two of the most wonderful exemplifications of what may be done by concentration of thought and by experiment. Who knows but that the microscopic flowering plants of the prairie may in coming years become the glad adornment of the richest feasts? Who knows but that the tiny forget-me-not, with its sweet delicate shade of heaven-reflected blue, may become a giant flower in company with those representing the hardiness and strength and the beauty of some of the greatest botanical specimens?

Referring to strong flowers, color to the eye is the indication of force and strength; therefore red flowers should be more in evidence—the rose, "Queen of flowers," the red poppy, the red dahlia and red carnations. Then also, as the coming flower, the orchid, marvellously mysterious in its growth, most delicate in its formation, and most exquisite in its tinting, should receive more general study in its cultivation. Hydrangeas, in their numberless varieties, for outdoor ornamentation, and hardy-blooming plants for out-of-doors, form one of the grandest opportunities for a profitable field of labor in the future.

It is useless, however, for me to take up your time with these suggestions, as who among you is not familiar with the subject we so dearly love and of which we are so great a part? Individual interest and advancement mean our united progress. With genuine interest each should enter into the knowledge, by any one of our members, of any discovery or any advance in the development of floriculture that may be made by him.

Our art has become one of the great bread-winners in the country and for the country, and its increase naturally becomes a matter of national interest and national pride. It is your duty to encourage the taste that is being manifested everywhere for the love of flowers and for the use of them. Show me one who cultivates flowers and beautifies the domestic hearth-stool, and I will show you a home in which love prevails. Show me devotion to the growing plant and the budding rose, and I will show you maternal and paternal devotion in the rearing of the children of the home. Show me flowers without, and I will show you the presence of education and the taste and culture that belong to them within.

There is no more potent antidote to evil thoughts, corrupt natures and low sensuality than the adoration of the beautiful; and what can lay greater claim to all that is expressed by the word "beautiful" than flowers? They are present in our midst upon almost every occasion, be it joyous or sad. The wedding bells ring out their glad sounds of greeting; all around and about the bridal pair are the ornamentations of loveliness and floral beauty. The muffled tolling of the solemn bells in mournful strains, indicating the passing away of a soul—and there, too, we find the tributes of love, affection, and respect, and tokens of sentiment expressed in flowers. Come to the happy feast, where the songs are sung and the wine goes round, and there, too, shedding forth the lustre of their beauty and speaking words of welcome and hospitality, are the sweet products of our art.

Increase the love of flowers, develop the taste, and in that proportion is the demand greater. The business grows necessarily with the demand; therefore it behooves you to strive that this end may be attained. There is no better place to set a good example than in and around and about your own homes and gardens. A shoemaker, it is said, keeps the poorest shoes upon his own wife's feet. Such reputation as that should never be attributed to the floriculturist. Become a part benefactor on your own premises, as he who plants a tree or flower, or cultivates a spot of ground, is a benefactor, because the result being a delight to the eye contributes to the pleasure of mankind. Don't fear the criticism of advertising the business, as there is no occupation that could possibly be purer, more benevolent or more god-like than our own. Therefore it is not with shame but pride that all of you, at this occasion, at every place and in every section, and among all people, say "I am a florist."

You should "let your light so shine before men that they may see your good works." If London can produce monthly a great flower exhibition, surely there is no reason why America could not have annually, at some great metropolis a flower exposition, wherein the whole country could join; and before concluding, I trespass this suggestion upon you that steps will be taken here at this meeting looking to carry out this idea.

In conclusion, while not endeavoring to enter into sentimentality, I may be pardoned if I trespass a little into the poetry of our art, and speak in the language of the flowers the sentiment of the hour.

First, to woman. Our devotion to her should be next to that to our Creator, but I cannot pay more pleasing compliment to her than to spread at her feet "the Austrian Rose," which silently expresses this sentiment, "Thou art all that's lovely!" Woman!—our mothers, our wives, our sisters, and our sweethearts—how grandly glorious thy mission!

"To give to society its highest taste—
Well ordered home, man's best delight to make—
And by submissive wisdom, modest skill,
With every additional care, deluding art—

To raise the virtue; animate the bliss,
And sweeten all the toils of human life:—
This be the female dignity and praise."

Next in adoration, Our Country. The sound of strife is never welcome, but the call to duty fell not upon deaf ears in the brief arbitrament of arms through which we have just passed (and I beg to indulge the hope completely and entirely passed), as alike to the victorious and to the vanquished, it has about it much of sorrow, hardship and tears, for the booming of cannon and the rattle of musketry is always followed by the sound of muffled drums and the music of funeral dirges.

We express the return of peace with the Olive, which has mythologically been sacred to Minerva, and always the emblem of peace since before the Ark rested on Mount Ararat. Many of our flowers have mythological creations with most beautiful legends. In the dispute between Minerva and Neptune it was decided by the gods that whichever of the two should give to the inhabitants of the earth the most useful present, great should be the reward. The olive was brought by Minerva, being the emblem of peace, which was decided to be far superior to Neptune's horse, the symbol of war and bloodshed. The olive, then, to-day be with you, and could I stand and figuratively throw out the emblem to all parts of the country and to the whole world, I would now waft myriads of leaves and let the winds carry them to the uttermost parts of the earth.

And now, once more; to those who have fought the nation's battles, and who are returning again to their firesides to transpose the weapons of war into the ploughshare and pruning hook, we offer the nasturtium, which is "a warlike trophy." And so, with the bard—

"We bring flowers to strew in the conqueror's path:
He hath shaken thrones with his stormy wrath.
He comes with the spoils of Nations back;
The vines lie crushed in his chariot's track;
The turf looks red where he won the day;
Bring flowers to strew in the conqueror's way."

Finally as peace hath its victories as well as war, go on with your honest emulation in endeavoring to inspire a greater zeal and interest in your organization, a more widespread knowledge of our art, and wherever it is possible to cultivate a love of it among the enlightened and progressive people of this our glorious country.

Secretary's Report.

MR. PRESIDENT AND MEMBERS:—I am glad to be able to report a prosperous year for our society, in which we have not only held our ground, but made, also, a slight gain over the record of the two preceeding years. The new method of assessing and collecting annual dues which went into operation with the beginning of the present year, simplifies the work of collection and the discontinuance of the cumbersome delinquent list removes a prolific cause of friction. As



HORTICULTURAL HALL, TRANS-MISSISSIPPI EXPOSITION.

to the effect of the new system on our treasury, it is yet too early to say and in the present transition period practical and useful comparisons of past and present conditions as to finances or active membership cannot be made.

One hundred and thirty-five persons who paid in 1896, had, up to August 10, 1898, neglected to respond for 1897 assessment.

The number of assessments collected for 1897 was 504, of which 108 were from new accessions and twenty-five were renewals of membership by former delinquents, each of the latter paying $2 extra for the privilege.

The additions were credited to the different states as follows: One each from District of Columbia, Georgia, Illinois, Indiana, Minnesota, New Hampshire, Nebraska, Virginia. Two each from California, Maine, Wisconsin. Three from New Jersey. Four from Ohio. Five from Connecticut. Seven from Rhode Island. Twelve each from Pennsylvania and New York. Fifty-one from Massachusetts.

Four deaths have been reported since we last met: Morris A. Hill, Ansonia, Conn., died on May 27.

Thomas Cartledge, Philadelphia, Pa., May 17.

H. Karlson, Exeter, N. H., July 4.

Philip Wieland, Boston, Mass., July 8.

The Providence convention was a memorable one, creditable alike to the society and to the local florists and gardeners of Providence and Newport. Its history has been fully told in the annual report of our society and nothing in connection with it requires special mention at this time, except that some of our members were once more made victims of an untrustworthy photographer who collected money for pictures that were only delivered months afterwards and under pressure exerted through the secretary's office.

The trade exhibition at Providence was a large and comprehensive one and managed with great ability. The competition for the society's medals brought out some exhibits of the highest educational interest, notably that of home grown rhododendrons and azaleas. The visit to Newport's lovely gardens was equally valuable as an object lesson.

The printed list of new plants introduced to the American trade in 1897, as ordered by the society, required much labor in compilation but appears to have been a good move, and the lists of succeeding years will be more easily done and also more complete. There is a strong demand for a system of official registration of names given to new varieties of plants on lines similar to the plan adopted by the American Carnation Society. Your secretary believes that something of this kind should be provided for at this meeting.

Our life membership fund has been subscribed to by fourteen members. It was hoped that this list would have reached larger proportions by this time—forty or fifty at least—so that we might start off with a substantial permanent fund.

Railroad transportation has been a most annoying and tedious problem this year. The railroads have moved cautiously because of the entanglements that would follow rate cutting to the exposition and the concessions which were finally granted us, although very satisfactory otherwise, came too late to materially effect our attendance from distant points.

Rarely since the formation of this society have we seen so much interest manifested as was shown by those present at the executive committee meeting at Washington last spring. The holding of the general session of the committee at a place other than the location of the next convention, for financial reasons which the committee well understood, and the reference of local convention arrangements at Omaha to the president, vice-president and secretary, although productive of some unfavorable comment at the time, is now generally conceded to have been a wise course under existing circumstances and the question arises whether this plan or a modification of it might not with advantage be followed regularly hereafter.

On the most important result of the committee's deliberations, the proposed new special departments of purchase, credit information arbitration, claims and legislation, our programme calls for action at tomorrow's session. The importance of careful deliberation in deciding whether the society should strike out into these new fields of endeavor, must be apparent to all and it is greatly to be desired that every member in attendance should be present at this and every other business session and do his part toward shaping wisely the future policy of the organization.

The special field in which the society labored so well in its young days is now pretty well covered by our enterprising trade journals and we are called upon to move on to live issues. Just in proportion as we keep in close touch with the practical business problems and present needs of the florists of America so will the shifting character of our support and membership be removed, we shall be strong where we are now weak, and we

shall obtain the desired permanence and stability.

We meet this time in a locality far remote from the scenes of our past activity and the wisdom of this new departure has naturally been the theme of some discussion. Upon what we do here, we shall be judged. Let it not be said that we are triflers. We are here to do something useful, let us all attend to that first, earnestly and in order. The Midway will still be in the same place when we get through and we can enjoy it all the more in the consciousness of having shown due courtesy to one another and performed our duty to the society, and to our fellows throughout the country for whose interests we profess to work. If, as has been said, "The S. A. F. is heard from but once a year," let that once be loud and strong this time. Whether the Executive Committee, in its recommendations, has struck the right chord, is for you to determine. If their views as to the society's scope and its power for good do not appeal to your sound judgment, give us something that does, and let us not think of adjournment until something practical has been accomplished and the long sought key to the united support and sympathy of our profession throughout the land has been found.

And, gentlemen of the west, do not forget that to the secretary's eyes the best evidence of prosperity is found within the covers of the roll book. A steady decrease in the membership means that something is wrong. We want you, not only to join us, but we want you to stay. You have the opportunity to set a good example and let the country realize that so far as your influence goes, the society is no longer forced to depend for sustenance upon the temporary affiliation of the man in whose neighborhood the organization may happen to convene.

Should our visit to Omaha help to win for us your enthusiastic loyal support and active co-operation and at the same time infuse us with a little of the courageous, resourceful spirit which dominates the hustling pioneers of our business in the vast, undeveloped Trans-Mississippi country and of which we, as a society, stand so greatly in need, then, indeed, shall we have reason to applaud the good judgment and foresight that selected this as our meeting place, and the convention of 1898, in the record of the good work accomplished, will stand pre-eminent in the annals of our beloved society.

Treasurer's Report.

H. B. Beatty presented the following statement of the finances of the society:

Cash on hand Jan. 1, 1897	$1021.19
Receipts	2035.00
Total	3056.19
Disbursements	1899.30
Balance	1156.89

State Vice-Presidents' Reports.

ALEX. WALLACE, New York:—Perhaps the surest indication of material progress is the amount of greenhouse building now doing in my state. As to the outlook I will quote C. W. Ward, of the Cottage Gardens, who says: "Regarding immediate prospects for general business, they seem to be pre-eminently favorable. The balance of trade is phenomenally in our favor. Our visible crops are usually large. A great proportion of our wealthy traveling population have remained at home, and as a consequence will purchase much at home that they have heretofore purchased abroad. Foreign consumers will need our products at a fair price. New markets will unquestionably be opened as a sequence of the war, and our older foreign markets will be amplified in some countries. Weighing the favorable and unfavorable conditions against each other, the favorable seem so strongly in the ascendency that it seems safe to prophesy a highly prosperous business era commencing with the usual fall opening of business, and I see no reason why the florist trade should be denied its full share of this prosperity." Of prime importance to the trade was the success which attended P. O'Mara and Messrs. May and Allen in their efforts to have a clause inserted in both federal and state statutes exempting florists' stock from the provisions of laws designed to prevent the spread of disease in trees and plants.

W. F. KASTING, Western New York.—I find an increase in the use of plants for dwelling houses, but see a demoralization of business in bulbous stock. I think that many wholesale growers would find a remedy for poor prices by growing plants and flowers in diminished quantities. I also suggest a more central location than that of the present year for the annual meeting, and commend efforts in behalf of the Fire Association and deprecate the department store evil.

S. D. DYSINGER, Minnesota.—There is an era of good prices and greater demand. We have had a mild winter and a splendid growing season. Prosperity is at hand. I regret a decline in interest in our state floricultural society and desire to testify my appreciation of the value of the S. A. F.

Other reports were made by Wm. Gammage, of London, Ontario; J. V. Merrion, of Illinois; Jos. Heacock, of eastern Pennsylvania; Alex. Galt Robinson, of Kentucky; D. McGillivray, of Vermont; A. Herrington, of New Jersey; Thomas Gunson, of Michigan; Mrs. H. E. Charter, of Connecticut, and Gustave Ludwig, of western Pennsylvania.

Sympathy for Mr. Smith.

President Gude spoke in kindly and sympathetic terms of the recent serious illness of Wm. R. Smith, of Washington, D. C., who had invariably attended the annual meetings. He also conveyed the welcome intelligence of that gentleman's reported convalescence. On motion of Robert Craig, of Philadelphia, resolutions of sympathy with and encouragement to Mr. Smith were unanimously voted and ordered to be wired to him.

Report of Nomenclature Committee.

TO THE SOCIETY OF AMERICAN FLORISTS.—Your nomenclature committee for 1898 respectfully submits the following report:

Early in the season the chairman of the committee sent to the principal trade journals a note requesting that cases of misnaming, double naming and the like, or other matters properly coming before this committee, might be promptly reported to its chairman, and some weeks since a similar request was mailed to each member of the committee. In response to the requests the appended letters have been received and they are hereby made a part of this report, in which their substance is incorporated.

Botanical nomenclature unfortunately is in a transition state at present and no little difference is observable in the usage of writers on plants, so that it is not at all surprising that the same species or natural variety should frequently occur in the catalogues of dealers under two or more of the names by which it is known to botanists. In 1893 it was made the rule of the Society of American Florists, on the advice of the nomenclature committee for that year, that in such matters the Gardeners' Dictionary of Nicholson, or, on its completion, the compendious Index Kewensis, should be followed in the acceptance of strictly botanical names, so far as practicable. At that time it was also decided by the society to prepare and publish a full catalogue of the decorative plants handled by the American trade compiled on this basis, so that the trade catalogues might more readily be brought into line; but unfortunately for this purpose, in view of the expense involved, it was decided by the Executive Committee at the Pittsburg convention that it would be impracticable to publish the catalogue, the clerical work for which had largely been completed by that time. As a result uniformity in the use of Latinized plant names by the trade is still as far from being an accomplished fact as it was before the society's rule was adopted, though it is believed that more care is taken in this respect than formerly.

It is a matter for congratulation that such difference of usage as is observable in the catalogues of the country is apparently attributable to the prevalent diverse custom of botanists rather than to an effort by dealers to make an old and familiar plant appear as a novelty by offering it under an unfamiliar name.

So far as your committee are informed, no reprehensible misnaming or double naming of florists' varieties requires presentation to the society at this time. The few cases noted in this report are rather the result of accident or perhaps of over enthusiastic zeal to distinguish favorite seedlings which, while they may be separable by skilled specialists, are scarcely to be regarded as distinct from other and earlier varieties, so far as the practical needs of the trade are concerned. In the following the first mentioned is recognized as the proper name:

Chrysanthemums—Jeannie Falconer or Peter Kay, Miss Agnes L. Dalskov or Ivoiry Rose.

Fuchsias—Gracieux or Little Beauty.

Roses—Climbing Kaiserin or Mrs. Robert Peary.

Considerable uncertainty is reported to exist with respect to the ready separability of some of the recent yellow and bronze sports of the chrysanthemum Mrs. Jerome Jones, and some contest may result as to the names which are entitled to recognition; but as this matter is at present in the hands of the Chrysanthemum Society of America for examination your committee is not now prepared to report further on it.

In conclusion, your committee wish to suggest to propagators the desirability of promptly registering with the proper committee of the society, or with the appropriate auxiliary society, any new varieties they may decide to offer to the trade, thus avoiding possible contest subsequently. And they would also call the attention of originators of new varieties to the confusion which is caused to the cut flower trade by the too common adoption of the same name for, say a rose, a carnation, a chrysanthemum, etc.

Judges of the Exhibits.

President Gude announced the following list of judges to pass upon the displays in the trade exhibit:

Class A, plants—Edgar Sanders, Philip Gauges, W. E. Kemble.

Class B, cut blooms—D. B. Long, A. S. Swanson, William Miller.

Class C, boilers—E. Weinhoeber, W. H. Elliott, John Wunder.

Class D, greenhouse appliances, etc.—George L. Miller, George M. Kellogg, Robert George.

Class E, florists supplies, etc.—J. T. Temple, C. G. Anderson, Jacob Schultz.

Class F, bulbs and seeds—Emil Schray, William Clark, C. G. Weeber.

Class G, miscellaneous—Edgar Sanders, Emil Schray, E. Weinhoeber, J. T. Temple, D. B. Long, George L. Miller.

Committee on medal awards—E. G. Hill, Robert Craig, William Scott.

Reception at Lininger Art Gallery.

Tuesday afternoon was the occasion of a largely attended reception at the Lininger Art Gallery. The remarkable collection of paintings and statuary, said to be worth nearly a half million dollars, was greatly admired. Mr. Lininger's daughter, assisted by several Omaha ladies received the guests. Lunch was served and cigars.

President's Reception.

President Gude's reception to the delegates and their ladies on Tuesday evening was followed by a lecture on "Russia" by Professor F. W. Taylor, Superintendent of the Horticultural Department of the Trans-Mississippi Exhibition. Speaking from actual observations made in 1892 and 1896 in trips from St. Petersburg to the Black Sea and from the Polish frontier to the Ural Mountains, the lecturer corrected some popular misapprehensions as to the severity of the climate and the hardships of Siberian exiles. He said he did not see a single convict in all his travels. Good crops and splendid fruits were produced in a more northern latitude than our own. The people, though in the main illiterate, were contented and loyal. The public buildings, kremlins, universities and churches, surpassed in architectural beauty and size those of any other country. The primitive modes of travel by rail and along the Volga, the populous cities of Novgsrod and Moscow with their market scenes, and the characteristics of the Russian peasant, were also depicted. An idea was given of the vast extent of the empire in Europe and Asia and finally an interesting description of the sage and sociologist, the world-famed Count Tolstoi.

The Fifteenth Convention.

The invitation of the Detroit Florists' Club met with a hearty welcome and the Society of American Florists voted to hold its meeting of 1899 in the metropolis of Michigan.

Fire Insurance Association.

The committee on the Florists' Fire Insurance Association reported that the organization had not received sufficient support and that the efforts made to give the trade insurance at first cost were threatened with failure. John G. Esler, president of the association, said it seemed to be a question whether the florists of the country were disposed to stand by themselves or help each other. He declared that if this lack of interest in the movement was to continue the association would be disbanded and the dues returned by the 1st of next January. Messrs. E. H. Michel, H. A. Siebrecht and W. J. Vesey strenuously urged the claims of the fire insurance organization. On motion of Mr. Siebrecht, a resolution was adopted pledging every member of the convention to carefully inquire into the matter during the present year with a view to giving it support and encouragement. The committee having concluded their labors, were discharged with thanks for their untiring and unselfish efforts.

Amendment to By-Laws.

A discussion followed upon the proposed amendment to the by-laws preventing the listing upon the official ballot of any candidate who had received less than ten per cent of the votes cast in the nomination, and upon vote the amendment was rejected.

Executive Committee Recommendations.

The convention then took up the recommendations of the Executive Committee for the establishment of new special departments, under the supervision of the society. The first was a Department of Credit Information, to furnish information concerning the business standing of persons in the trade. This was voted down.

The next recommendation was to establish a Department of Co-operative Purchase, to be managed by a committee of three, to be appointed by the President, subject to the approval of the Executive Committee. After remarks in its favor by Messrs. E. M. Wood, J. G. Esler, E. H. Giesy and W. W. Coles, and by Messrs. C C. Sanders and J. L. Dillon in opposition to it, the recommendation was adopted.

The remaining recommendations were adopted without discussion and the several committees in charge were continued for the year. They established a Legislative Department to discourage adverse legislation, state or national, and encourage legislation favorable to the trade; an Arbitration Department, to promote the amicable adjustment of controversies between members, when requested by parties interested to do so. Upon motion of Sec'y Stewart, the last named department was placed in charge of the special committee of the New York Florists' Club, headed by Mr. Patrick O'Mara. A Claim Department was also established to look after the adjustment of claims of members against transportation companies.

Report of Exhibition Judges.

Class A: Your committee finds five entries confined, to such ornamental plants as are suitable and may be required by retail florists in their business. H. A. Siebrecht has a very fine exhibit of palms in variety and size; arecas in variety, including some extremely well grown; also a quantity of small ferns suitable for filling ferneries, vases, etc.; and young plants very useful for small decorating. The St. Louis Cut Flower Co., a group of finely grown ferns, some of the large size Ficus elastica and a number of smaller miscellaneous plants. Siebrecht & Sons, a fine group of palms, ferns, pandanus and arecas; very fine plants. Wm. J. Hesser, of Plattsmouth, Neb., a group of palms, ferns, some cacti and also succulent plants.

Class B: Sunset Seed and Plant Co., of California, exhibit of upwards of ninety vases of sweet peas; a large assortment, including many new and distinct. A lack of substantial labeling prevented a careful judging of the individual varieties. Cushman Gladiolus Co., meritorious display of gladioli in great variety. Wm. H. Elliott, strings of Asparagus plumosus, including several more than twenty feet in length, the quality of which is highly commended. B. Haas, of Omaha, vase of gladioli. An exhibit of roses of seven varieties in vases was shown by J. F. Wilcox. (Mr. Long who passed upon this exhibit, states that many of the varieties were meritorious considering the time of year).

Class C: Boilers, none on exhibition.

Class E: Florists' supplies, etc.; the judges make mention of Mr. A. Herrmann's supply, also a display of florists' metal designs. Ellis & Pollworth have a creditable display of florists' supplies; cut flower boxes deserve special mention. D. B. Long, an exhibit of florists' photographic calendars, etc.; very fine.

Class F: J. C. Vaughan's Seed Store shows a very fine display of florists' bulbs.

Class G: Daniel B. Long, an assortment of stationery including a series of designs in various colors; altogether a novelty of merit as compared with previous exhibits. Dayton Paper Box Novelty Co., an exhibit of florists' paper boxes in various sizes. Boston Florists' Letter Co., an exhibit of samples of their designs in letters.

The report of the committee to award medals was submitted as follows: An exhibit of bulbs raised by Geo. Gibbs, in Orcas, State of Washington. It includes three varieties of narcissi, two varieties of iris, three of Dutch hyacinths and six of Roman hyacinths, crocus, yellow and white, tulips and four bulbs of Lilium candidum. The bulbs are all of very fine quality, being solid, heavy, well ripened, and in size comparing favorably with first-class Holland grown stock. The Lilium candidum deserve special mention as they are the largest and finest ever seen by your committee. The whole exhibit is extremely interesting and valuable as indicating the possibilities of bulb culture in some sections of America; awarded a silver medal.

Photographic business: Mr. D. B. Long makes an exhibit of various designs suitable for catalogue colors and other commercial purposes. The majority of the exhibits are of unique and original construction, and have, we believe, a decided commercial value, deserving the award of the society's silver medal.

Chrysanthemum Society of America.

Secretary Elmer D. Smith presented the following report at the session Wednesday afternoon, naming new chrysanthemums disseminated during 1898 as follows:

By John N. May, Summit, N. J.: Alice F. Carey, Chempwee, Dolores, Minnewaska, Miss Gladys Vanderbilt, Robert G. Carey, Spotswood.

By E. G. Hill & Co., Richmond, Ind.: Autumn Glory, Black Hawk, H. W. Longfellow, Solar Queen, Quito, Christmas Gift, Boundless Snow.

By Hugh Graham, Philadelphia, Pa.: Pennsylvania.

By F. Dorner & Sons Co., Lafayette, Ind.: Mrs. C H. Pierce, Snow Queen, Merry Christmas.

By Theo. Bock, Hamilton, O.: Mrs. Wm. B. Brown.

By G. P. Rawson, Elmira, N. Y.: Wm. H. Chadwick, The Yellow Fellow, Madeline Pratt.

By C. W. Ward, Queens, N. Y.: T. H. Spaulding.

By A. Herrington, Madison, N. J.: Frank Hardy.

By J. C. Vaughan, Chicago, Ill.: Yellow Mrs. J. Jones.

By F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.: Mrs. O. P. Bassett.

By Theodosia B. Shepherd, Ventura, Cal.: Susan B. Anthony, Victoria, Theo. B. Shepherd, Viola, Miramar, White Wings, Dazzling, Fly-Away, Darling, Madonna, Firefly.

By McDonald & Steele, Crawfordsville, Ind.: Mrs. A. F. Wienold.

By E. J. Paddock, Cleveland, O.: Adam Graham.

By N. Smith & Son, Adrian, Mich.: Arline, Thornden, Merza, Rustique.

By W. N. Rudd, Mt. Greenwood, Ill.: Mrs. A. J. Caton.

Of the fifty-two seedlings exhibited before the committee, twenty-five scored eighty-five points or more and have been awarded certificates. The varieties are as follows:

Mrs. Arthur J. Caton, Boundless Snow, Solar Queen, H. W. Longfellow, Australian Gold, Bessie Hollis, Autumn Glory, Black Hawk, Pennsylvania, Mrs. O. P. Bassett, Frank Hardy, Chas. W. Crouch, Mrs. Sam'l Higdon, Snow Queen, Mrs. C. H. Peirce, Alice F. Carey, Robt. G. Carey, Spottswood, Miss Gladys Vanderbilt, Arline, Thornden, Rustique, Merza, Our Dear Friend, W. N. Chadwick.

Trade Exhibitions: Their Value to the Florist Business.

BY E. H. CUSHMAN, EUCLID, O.

[*Read before the Omaha Convention of the Society of American Florists.*]

The subject of trade exhibitions is of vital importance to every one of us who has anything to sell. They furnish a good opportunity for every plantsman and dealer, who would make a business success. They are a gathering of the same lines of business under one roof, for the purpose of showing what we have to sell, and giving an opportunity for comparison and the extension of business acquaintance, not otherwise possible.

These gatherings of commercial men with samples of their goods, in conjunction with a large gathering of consumers of those goods, is one of the very best advertisements possible. The wide awake and practical soon get the rough corners worn off at these shows, and usually the conceit taken out of them, if they have any. There are so many good things in connection with these trade gatherings, I am sure it is a poor man who does not get value received for exhibiting or attending our conventions.

Just cast your eyes about in the Trade Hall, and see what a busy place it is. What introductions these exhibits give. Men who never would find each other, do so when they see the trade sign out, or they are interested in the same line, and fall to conversing about it. In this way many pleasant business and other relations are formed, which terminate only when the mortal part is put to rest.

Gentlemen, I do not wish to be cranky on this subject, but our trade shows have done so much for me, and I see such possibilities in them for others and the trade at large, that I wish as far as possible to create greater interest in this vital organ of the S. A. F. I ask you, gentlemen, to throw your efforts for the building up and improving of this branch of our work. What the eye sees is retained longer than evidence taken in through any other of the senses. Show the best, that customers will know when they are getting the best, and you will make it more difficult for poor stock to be palmed off on purchasers. Exhibitors at our conventions are doing more than just selfish work. These exhibitors are keeping up an education among florists themselves, of incalculable benefit. Brother exhibitors and florists, I ask of you to do all you can for this feature of the convention. If you see points that are weak, seek in a wise way to strengthen them. If we tear down let us have something better to put in its place. The discussion that will follow this, I hope will bring out many valuable thoughts and indicate lines of improvement.

I had thought to give you a few of the requirements of a successful exhibition, but I fear that would only be a "drug on the market" as you all know how to "get there," as well as I do. If I could tell you how to conjure impossible conditions so as to bring a harmonious combination, Oh, my, what shows we would have! No ill feelings, no debt to wipe out and everyone with first. There are great opportunities for the trade to develop through exhibitions and shows. It behooves us, as wide awake S. A. F.'s, to endeavor to take advanced steps in exhibitions. We must have national exhibitions in keeping with our national progress; they will be trade promoters, and we must watch and work with our government and the management of future great expositions, and see that our interests are second to none. I believe our Trade Exhibition is the most important feature of our meetings. See to it then, that it receives due consideration in the future. It is worthy of the best hall and management this organization can command.

There is another sort of a trade exhibition which it might be well to call to mind. The efforts individuals may and do make at home in their every day business. The chief end of a display is to create a desire, and offer an opportunity for comparison. No honest dealer can begin to convey, by a description in type, what he has to sell, as he can by placing the thing itself before the would-be purchaser. This being fully realized, the up-to-date florist, or dealer, is always ready and anxious to show his skill at every opportunity. This applies to the local florist of a small town, as to the leading city establishment, to our county fair, as to our grand expositions and trade displays. If you are a market florist, it stands you in hand to study your display, so as to make it catch the eye, and cash as well, as to study how to produce. Only the smartest are capable of running the retail end of a florist business, and at the same time conduct the growing successfully. I am sure increased business will come to many who will give these sales exhibits more attention. Get out of the ruts, be different, so a fellow will know just when he has come to Smith's stand by its style and make up. Give it an individuality in some way, so you will be known from the half dozen neighbors near by.

Trade requires you to show the newest and best you have. You must fulfill this requirement, or lose custom. Show your goods is a law of trade, as essential to us as to any other line. Business men fully realized this, hence the great combinations spending millions of dollars and resulting in our great expositions. Go into our cities and see the quantities of valuable goods placed attractively in large show windows, placed with all the skill and art that trained help and costly fittings can command, and you can form some idea of the value placed on trade displays in other lines of business. Our retail flower stores are not behind in this grand effort at display, for they, too, are abreast of the times in showing their beauties, with all the accessories of glass, gilt and electric lighting.

Trade displays, yes these are the very essence of trade displays. It is not possible for me to approximate the value of these displays to the business itself. I know a prominent florist who estimates the actual value of his window display at not less than fifty dollars per day. What its direct value to him is, I cannot say, but that this one window has been of great indirect value to the balance of the city's flower trade, I have but little doubt. Through blistering summer and frosty winter, that grand, beautiful live flower picture is feeding the hungry, who cannot possess, and drawing the dollars from the rich who see only to possess. In the language of the proprietor of this store, "they walk right in and buy." Truly I believe this display is richer than the eye can see, and he who makes it is a benefactor of his race, be he the individual taken as an illustration, or any one of the hundreds making the same efforts.

Florists should be strong supporters of every effort to beautify public grounds, for they bring to the public eye the uses and beauties of our goods, and in a measure are trade exhibits. A beautiful plant, flower or combination of both, seen for the first time at some park, or exposition, stamps itself on the memory, awakens a new interest and desire which at the first opportunity will be gratified, and some tradesman will have made a sale and be benefited.

Realizing the value of showing our goods, it behooves us as a society and as individuals to let no opportunity pass that we can utilize for the purpose of these displays. Many local clubs and individuals are and can do much to increase trade by making these displays. We can greatly increase the love for flowers by showing the people what to have, and how to have it, and when they have it at its best. I hope to see this trade feature extended, improved and worked up to the highest degree of effectiveness.

Trip to Hanscom Park.

On Wednesday afternoon the ladies who were in attendance at the convention were treated to a carriage ride about the city and to Hanscom Park, where refreshments were served. The Omaha ladies who acted as hostesses upon this occasion were Mesdames A. Donaghue, Sr., Swoboda, J. F. Wilcox, L. A. Kasper and S. B. Stewart.

The Florists' Hail Association.

At the annual meeting of this association, Wednesday afternoon, Messrs. Wm. Scott, of Buffalo, and John T. Temple, of Davenport, Ia, were elected directors. Amendments to the by-laws were adopted providing that, for each million square feet of glass insured, the officers shall receive annual salaries as follows: The secretary, $50; the treasurer, $20; and the president, $7.50. The reports of Sec'y J. G. Esler and Treasurer A. M. Herr were considered and accepted.

At the meeting of the directors Messrs. E. G. Hill, J. T. Temple, Wm. F. Dreer and J. C. Vaughan were present. The following were elected: President, J. C. Vaughan, Chicago; Vice-President, E. G. Hill, Richmond, Ind; Secretary, John G. Esler,

Saddle River, N. J.; Treasurer, Albert M. Herr, Lancaster, Pa. Messrs. Vaughan and Hill, who resigned as directors, were succeeded by E. Weinhoeber, Chicago, and H. M. Kellogg, Pleasant Hills, Mo.

The Bowling Tournament.

Six teams participated in the contest for the Evans Challenge Trophy. Buffalo made the highest score but, not being able to muster a full team, was admitted to the competion with outside players only upon the condition that she should not claim a win if successful. Wm. Scott made the highest individual score and won a gold medal, with an average of 179. The contest lasted eleven hours. St. Louis was awarded the trophy. Following is the complete score:

ST. LOUIS.	1st.	2nd.	3d.	Total.
C. A. Kuehn	148	119	169	436
C. C. Sanders	133	111	97	341
E. Schray	139	135	116	390
J. W. Kunz	157	120	144	421
J. J. Beneke	127	157	145	429
Carl Beyer	150	141	158	449
Total	854	783	829	2,466
OMAHA.				
A. Donaghue, Sr.	156	120	99	375
J. F. Wilcox	165	135	182	482
J. H. Hadkinson	131	85	173	389
G. Swoboda	99	89	109	297
L. Henderson	139	112	140	391
L. C. Chapin	139	114	108	361
Total	829	655	811	2,295
CHICAGO.				
J. S. Wilson	179	150	153	482
G. L. Grant	104	128	117	349
Phil Hauswirth	118	120	109	347
G. Stollery	144	149	135	428
W. Kreitling	115	130	126	371
A. L. Vaughan	113	83	104	300
Total	773	760	744	2,277
CLEVELAND.				
S. N. Pentecost	136	94	120	350
Cushman	116	126	151	393
W. L. Rock	128	159	133	420
Schmitt	61	85	70	216
A Graham	92	167	105	364
H. A. Hart	103	76	101	280
Total	636	707	680	2,023
PHILADELPHIA.				
A. L. Brown	171	147	131	449
W. C. Smith	98	97	109	304
J. C. Wescott	156	125	160	441
C. Longinotte	150	121	168	439
Robert Craig	113	140	121	374
J. P. Habermehl	99	158	125	382
Total	787	788	814	2,389
BUFFALO.				
Wm. F. Kasting	121	158	178	457
Walter Mott	112	91	115	318
J. V. Merrion	115	138	140	393
J. J. Hess	108	148	174	430
W. Kohes,	134	129	152	415
Wm. Scott	175	164	200	539
Total	765	828	959	2,552

The Election.

Willis N. Rudd, president-elect of the Society of American Florists' is a young, energetic, progressive Chicagoan. He is enthusiastic, yet conservative, and is always to be found in the front rank of the army of workers in the cause of good floriculture. As president of the American Carnation Society he gained an enviable reputation for his wise and conscientious policies and under his guidance the S. A. F. will not fail of material advancement along the lines of its greatest usefulness.

In accordance with custom the vice-president was chosen among the members from the city selected for the next convention and the choice fell upon Philip Breitmeyer, of the firm of J. Breitmeyer & Sons, Detroit's largest growers. Mr. Breitmeyer is president of the Detroit Florists' Club. Secretary William J. Stewart, of Boston, and Treasurer H. B. Beatty, of Oil City, Pa., need no introduction to our readers.

Bulb Growing in America.

A paper not on the programme was upon "Bulb Growing in America," by Prof. W. F. Massey, of the North Carolina Experiment Station. It was particularly timely and was listened to with attention, as it contained much of practical value.

A Few Remarks on the Dahlia.

BY LAWRENCE K. PEACOCK, ATCO, N. J.

[Read before the Society of American Florists at the Omaha Convention.]

With the revived popularity of dahlias comes a renewed interest in anything pertaining to their development and culture. I regret recent ill health prevented my presence with a more exhaustive article but I will be pleased to give any further information in my power, or answer questions in any of the trade papers.

During the present year there was an increase of fully fifty per cent in the sale of dahlia plants and bulbs and during the past six years over fifty per cent or an average of nearly ten per cent for each year since 1892. In reference to the different classes I am compelled to say that the cactus type has been a source of great disappointment in many ways. First, they are not so free in blooming as the other classes; second, they will not keep so long after cutting; third, except in a few cases they have very short stems unless disbudded; fourth, they are the latest of all dahlias to bloom.

There are, of course, some exceptions. That is, some of the true cactus dahlias do not have all of the above failings. For instance, the cactus dahlia, Henry F. Michell, is an immense flower of perfect form and an early continuous bloomer, but, like other cactus varieties, will not stand up well after being cut.

Of their form, however, it can be said that their beautiful forms and exquisite blending of colors make them the most delicate and graceful of all dahlias.

Of the cactus dahlias, Delicata, Perle de la tete d'Or, Lady Penzance, Gloriosa and Countess of Pembroke, if it can be called a cactus, are the most valuable. Showy and fancy dahlias still seem to be the favorites, judging from the bulk of sales, but they are closely followed by the decorative class, or, as they are sometimes called, semi-cactus, decorative cactus, etc.

This is perhaps the most valuable type of dahlias for florists' use; they are strong, vigorous growers, free bloomers, full range of colors and have long stems. The most valuable of this class are Clifford W. Bruton, Wm. Agnew, Grand Duke of Alexis, Mrs. E. C. Monroe, Henry Patrick, Maid of Kent, Nymphæa and Black Prince.

Another fine variety is the weeping dahlia, Lemon Giant. It is of a pale yellow color, five to six inches in diameter, deep and full. They are borne on long drooping stems and from a distance resemble large fluffy balls.

The pompon dahlia seems to be holding its own in the race and with such beautiful varieties as Eleganta, Snowclad, Rosalia, Daybreak, Fairy Queen, Little Beatrice, Little Prince, Little Diavolo, and a score more of equal merit, it is not surprising. Little Beauty is the name of a new delicate pink variety to be introduced in 1898. The petals are perfectly quilled and it is a valuable acquisition.

In single dahlias great advance has been made with a corresponding increase in popularity. The greatest objection to Paragon, Nance, Cloth of Gold, and other old favorite single dahlias was their great height and lateness of bloom. We now have single dahlias of larger size and same length of stem on plants eighteen inches to two feet high.

Of these varieties St. George leads them all; color pure yellow; height two and one-half feet, size four to five inches in diameter; a strong sturdy grower, free, early and continuous bloomer. Ada, Edina, Irene, Luxury, Vernie, Little Dorothy, Corrine and others, including Novelty, the new fragrant dahlia, combine in making the new dwarf, large, early flowering, long stem, single dahlias one of the most valuable sections of the entire dahlia family.

I had not intended to say anything regarding our single stem branching system, but after the past heavy storm I must mention it even at my own expense. During April and May we had rain almost every day for six weeks which prevented early planting. This was followed by a severe drought, broken only two weeks ago with thunder storms and very heavy winds. Now, as we were late and very busy, we concluded that our dahlias, thirty-one acres, would bloom earlier if not pinched back. This was a big item as we had a large number engaged as soon as ready. We were perhaps two weeks ahead by not pinching, but had taller plants by one-third and shorter stems by one-half.

On Thursday evening, August 4, we had an acre and a half of Clifford W. Bruton coming into full bloom standing about five feet high. During the night we had a heavy storm, with wind blowing a gale. On Friday morning, August 5, our block of Bruton dahlias were flat and it took six men a half day to stand them up.

A friend of mine, Mr. C. E. Varnum, had two rows of specimen blooms grown to the single stem branching system. Out of three hundred plants exposed to the gale one plant was blown over and two or three leaned a little; the balance were standing as erect as ever.

In conclusion I would like to call attention to the possibilities of the dahlia as a florists' cut flower, both for bouquets and for decorations. Varieties like Countess Pembroke, Nymphæa and Clifford W. Bruton, have size, color and length of stem, all that can be desired; also the possibilities of the dahlia as an exhibition flower. The exhibitions of the past two years, both in Philadelphia and Madison Square Garden, in New York, have demonstrated their value better than I can express.

I sincerely trust that at the next meeting of this society, the American Dahlia Society will be officially represented and I think it would be a good thing if it could work in conjunction with the Society of American Florists.

Trip to Council Bluffs.

Thursday afternoon was devoted to a trolley ride over the splendid inter-urban electric line to Council Bluffs and the

home of J. F. Wilcox. Special cars were provided and the party, numbering into the hundreds, left the Paxton hotel at 1:30. Mr. Wilcox served luncheon at his home and the return was made in season for the evening session after one of the most enjoyable outings which has fallen to the lot of the S. A. F.

Grafting Roses for Forcing Under Glass.

BY ROBERT CRAIG, OF PHILADELPHIA.

[*Read before the Society of American Florists at the Omaha Convention.*]

This is a subject which is exciting very great interest in the minds of many rose growers of America at the present time. The business of forcing roses for cut flowers has assumed vast proportions, the competition is so keen, and the supply frequently so large, that the markets are often glutted, so that only the very finest blooms command remunerative prices, except in the now very rare occasions when there is a scarcity in the market. Any method, therefore, which gives promise of better results is eagerly discussed, and the most progressive are ready to to adopt it as soon as it is shown to be of value.

Grafting of fruiting, flowering and ornamental plants is a very old art and has been practiced for thousands of years; but it is only recently (within the past ten years) that any extensive experiments have been carried on in houses used for forcing roses for cut flowers. In this country as early as 1887 the subject was discussed in the columns of the AMERICAN FLORIST by several prominent growers, some of whom were of the opinion that grafted roses gave better results than those on their own roots; and others just as prominent, maintained the contrary opinion. Now, after all these years, the fact that a few of our most successful growers, catering to the severely critical markets of New York, Boston and Philadelphia, have, for the past three years, been gradually and greatly increasing the quantity of certain varieties grown in this way, is, in itself, sufficient reason for inquiring into the subject. I will endeavor briefly to give you the results of my own experiments and observations, in the hope that the matter may be further discussed by the growers present at this meeting.

I think it may be safely said that certain varieties, in a great majority of instances, show decidedly better results when grafted than when grown on their own roots. This is most noticeable in three very important roses, Bride, Bridesmaid and Kaiserin Augusta Victoria. The advantages are in the increased vigor of growth, resulting in the production of better blooms, on longer stems, and a greater quantity of them. I have also seen Mme. Hoste and Souvenir de Wootton do remarkably well, also Mme. Caroline Testout and President Carnot when grown for summer bloom. I now have two houses of grafted Kaiserin, each 130 feet long by twenty-two feet wide, planted on benches, from 3-inch pots on April 20, and the plants have been paying well for the past two months. This is the best white rose for summer and therefore fills an important place. I must say I never saw young plants do so well as these have done and are now doing. The plants average three and one-half feet high and have been continually producing an abundance of good blooms. I have noticed this variety, grafted, doing particularly well in other places. I may say here that I last winter examined a house of Brides planted on benches, one-half of which were grafted and the other half on own roots. There was in this case very little difference in the growth of the two lots, both doing exceptionally well, the grower, a very prominent one, remarking that he could "see no advantage in grafted plants." In all the other lots I examined in different sections of the country, the grafted roses showed notable superiority. In the cases of Mme. de Watteville, Mme. Cusin, Mrs. Pierpont Morgan and Meteor no difference could be observed between those grafted and those on own roots. In the case of Perle and Sunset those grafted on Manetti were inferior to those on own roots; a good stock for these varieties and for others which do not thrive on Manetti may yet be found.

In 1880 Mr. Peter Ball, of Malden, Mass., had a house of Perle grafted on Yellow Banksia which did remarkably well. I am of the opinion that no advantage is to be gained by grafting American Beauty, as that variety usually makes wood fast enough on its own roots. It may, however, be worth a trial by those who cannot grow Beauty successfully on own roots. I have noticed experiments with roses grafted on Rosa Carolina, R. multiflora Japonica, La Grifferaie, Polyantha, Banksia, Rosa canina (used largely in Europe as a stock for teas), Carmine Pillar and Climbing Wootton. In the case of Bride, Bridesmaid, Kaiserin and Wootton, Manetti has proven decidedly the best; it is not affected by eel worms and is so vigorous that it will stand very rich feeding. As to other varieties a suitable stock may yet be found. The Cherokee rose might be a good one as it is extremely vigorous and an evergreen variety. The stocks may be readily grown here but it is much cheaper to obtain them from Europe; they should be ordered of as nearly uniform size as possible, and not exceeding five-sixteenths of an inch in diameter. When they arrive in the fall they should be heeled-in in a cool place but one where they will get no frost, which frequently injures them, until the time for putting them into 2½-inch pots arrives.

After the stocks have been potted and put in a temperature of 45° to 50° (it is better to start them in this low temperature until they are well rooted), they are ready to graft. After the sap has started in the stocks they should be kept from freezing, or failure will be the result. The best method is what is known as "splice grafting," *i. e.*, the stock should be severed by a long diagonal cut and the scion cut of corresponding shape to fit as nicely as possible. The important point is to form a direct contact between the layers of inner bark, as the pithy part in the center never unites. It is well to have the scion and the stock as nearly of a size as possible, and the union should be made as soon as possible after the scion is taken from the parent plant. The scion should not be kept for any length of time in water, the absorbtion of which prevents a good union being made. The wood used for grafting may be kept in a box with damp moss, or covered by damp paper; the scions may be tied with either string or raffia; the latter is preferable, as string is apt to cut into and injure the graft. The operation should be carefully done, and the more nearly perfect the union, the better for the future welfare of the plant.

The best time to graft roses is during January, February and March; after the latter month the sun gets strong and the top heat is likely to be too great. After the plants are grafted, they should be put in a tight case in the greenhouse, with strong bottom heat, which can be had by inclosing steam or hot water pipes under the case. For a case five feet wide, six 1¼-inch steam pipes, regulated with valves, will be ample. First whitewash the inside of the case thoroughly with lime and sulphur as a preventive of fungus; this should be repeated every time a crop is taken out. There should be put in the bottom of the case an inch of coarse cinders or other rough material as drainage; this should be covered by two inches of sand in which to plunge the pots and should be well soaked with water before the plants are put in, which will obviate the necessity of watering for several days. In placing the plants in the case it is well to leave an inch space between the outer row of plants and the side of the case, as fungus, the greatest obstacle to success, frequently starts on the woodwork. If fungus should appear, it may be washed off with clear cold water. After the plants are put in the case a steady temper of 80° to 85° should be maintained until the grafts have "taken," which will be in from two to three weeks. No air should be given for the first three or four days; after that, the sash may be raised an inch or so. As soon as the grafts have "taken" they may be removed from the case into a greenhouse of the temperature of 60°, and started up with light stakes to prevent the grafts from breaking off. It is well to shift them into 3-inch pots and establish them before planting on the benches.

Improvement in Varieties and Cultural Methods.

BY E. G. HILL, RICHMOND, IND.

[*Read before the Society of American Florists and Ornamental Horticulturists at the Omaha Convention.*]

The subject assigned me is one involving questions that lie at the root of all real progress in our profession.

The pessimist declares that there has been no real progress either in the production of new varieties or in the origination of better methods; that old things are the best things.

That there are numbers of florists, good men and fair growers, who hold this view, is unquestionably true. It is unfortunate that such an opinion should hold sway over any considerable number of gardeners and plantsmen, but one has only to look about with his eyes and listen with his ears to be convinced that such a condition of mind exists among a great many florists both east and west, and the position taken by them, and their utterances of such views, have a retarding and clogging influence upon our trade life, much as we dislike to acknowledge it.

The point of view may make a great difference with our conception of the relative progress or lack of progress of our craft.

The indifferent florist, the florist lacking in energy, the florist only partially interested in his work, these are the men who measure the efforts of their fellow craftsmen by their own short yardstick and defective scales.

Notwithstanding their assertions, we claim that there has been progress in the production of new varieties of plants and this can be proven by a reference to the revised lists. Take the carnation; note what advance has been made since American growers have taken hold of this winter flowering plant. Yet, palpable as has been the gain, there are still grumblers who claim that we have only added size and at the expense of quan-

tity, and the gain is only superficial—nothing that can be computed in dollars and cents.

This line of argument can be refuted by the reply that second and third quality flowers remain unsold, while flowers of large size and perfect form find a ready market.

It is true that the production of new varieties and the improved culture of plants must go hand in hand, and we make the claim that they have very nearly kept pace together, although there are certain lines of plants of which this cannot yet be asserted; but take the rose; this is the flower upon the production and sale of which the florist is, perhaps, most dependent. It can hardly be asserted that the origination of new varieties has kept pace with the improved culture as exemplified by a large number of our best growers both east and west. We can count on the fingers of one hand the varieties of forcing roses which are necessary for the trade of the present day: Bridesmaid, Bride, American Beauty, Meteor and Kaiserin Augusta Victoria, Perle, Sunset, Mme. Cusin, La France, Testout, Gontier, Mrs. Pierpont Morgan, have all declined in favor, as did Bon Silene, Isabella Sprunt, Safrano, and Cornelia Cook in a former decade; we have not been favored with new sorts that can take the place of those named above. Kaiserin is the only late addition, and this is not as productive as could be desired in mid-winter under our present conditions of rose forcing.

Dame Fashion desires and insists upon having novelty and change in bonnet and gown, in house and furniture, in nearly everything which ministers to our sense of pleasure.

A city lady speaking recently of her floral decorations said: "I am very tired of seeing on my table Scott carnations and Bridesmaid roses, flowers which have become so common that they are flaunted in one's face at every street corner and ferry crossing; yet often there is little else to choose in this color."

One reason for the complaint of the lack of profit in rose growing heard at many of the large rose growing centers, comes from the fact that there is not variety enough in our roses, hence the increased sale of other kinds of cut flowers, and the greatly increased demand for fine plants. If the proportion of cut roses is to keep up to the volume sold in previous years, it is manifestly evident that new varieties amenable to our present growing conditions must be forthcoming; roses for blooming in pots, for home and garden adornment, have been produced and have proven very popular as will be noted further in this paper.

The efforts of Mr. Jackson Dawson and of Mr. W. A. Manda are to be commended, for, if they continue in their line of improvements, we shall soon possess garden and climbing roses which shall combine fine decorative qualities with hardiness to withstand our severe winters and trying spring weather.

To revert again to carnations; from the best attainable data, it is fair to conclude that the art of producing fine flowers has kept pace, in measure at least, with the finer varieties of carnations introduced in recent years. The time of lifting the plants from the field, benching, preparation of the soil, feeding, staking, watering, and other details carefully looked after, have to a great extent revolutionized the methods in vogue but a few years ago. If one wishes to be convinced that superior methods of culture prevail, and that the new varieties are finer in size and form, with better stems, and more variety in color, he has only to attend the annual exhibition of the American Carnation Society. This society is doing a commendable work in diffusing knowledge tending toward better culture and especially is its work valuable for the wise, fair, and cautious methods of bestowing certificates and honorable mention upon new varieties. It is only fair to say that the greatest advance has been made in carnations as compared with other flowers, and that the equality between the improved methods of culture, and the improvement in varieties is very marked.

In chrysanthemums, the production of new varieties and the steady improvement in the form and finish of the cut blooms has been marked each year, despite the high grade flowers produced and exhibited the year of the World's Fair. Among the newer sorts are varieties more suitable for handling as cut flowers, varieties that bloom earlier, choicer sorts for very late growth, together with new colors.

The general production of finer flowers both for sale and exhibition as well as for decorative purposes, has been very marked.

In orchids, great strides have been made in cultural methods; the old coddling process has given way to a common-sense and economical system of management. This genus of plants will grow in favor with the public as people become better acquainted with its charming colors, unique forms, and simple requirements. Prediction is made that they will become an important factor in the cut flower market as soon as the new methods of culture are more generally known and practiced.

To decorative and bedding plants there are constant additions of valuable varieties; some of the notable things are to be found among the new Brazilian caladiums; these are marvels of color combination.

Among newer crotons are many brilliant and valuable additions to standard sorts; crotons grown under the new conditions prevailing, with artificial heat in summer, and suitable soil, are destined to perform an important part in all decorative plant work.

Asparagus Sprengerii will prove one of the most valuable plants of recent introduction when once its diversified usefulness becomes known.

Everything indicates a marked improvement in all cultural methods as applied to the development of plants for the production of cut flowers; progress is the watchword; every wide-awake florist questions, "Is there a better way than the method I am using?"

Plants and their requirements are being studied and understood as never before, and we in America are standing on the threshold of a new era in their growth and production. Let us be fully alive to the possibilities that lie before us in Flora's grand domain, and like our gallant tars and brave soldiers, not be content to simply keep abreast of the general line, but, like the true American, show that there is a "man behind the gun" who can and who does hit the mark.

In our endeavors to create new forms in plant life let us bear in mind the wants of the American people. We want new roses that shall supplement our too meagre list of really suitable varieties for cut flower production. Let us seek a tea rose of the shape, form, and productiveness of Bridesmaid with the color of a Jacqueminot; we also need a yellow Mermet. If the rose growers would seek as persistently as have the carnation men to produce choice seedlings, these two forms and tints would soon fill our eyes with gladness and our hearts with joy. Let no American rose grower use the names Admiral Dewey or Commodore Schley until he has a scarlet Bridesmaid or a yellow Mermet with which to honor and adorn the names of these two gallant Americans!

Noteworthy evidence of recent advancement.

(1) The houses of grafted roses at the Waban Conservatories, at Natick; results showed stouter canes than under similar conditions on own roots, and thirty per cent more of A1 blooms.

(2) A house of Crimson Rambler rose at Robt. Craig & Son's, Philadelphia, flowered in pots for Easter sales; those grown in pots for two years gave even better results than those potted from the field the preceding autumn.

(3) Dracæna Sanderiana, as grown by W. K. Harris, Philadelphia, is one of the choice things for the center of jardinieres and fern pans.

(4) A bunch of Mrs. Lawson carnations as grown by Mr. Peter Fisher, of Ellis, Mass., observed early in February, showed extraordinary good cultural results; the bed shaded by cheese cloth in the middle of the day.

(5) Bench of Hector carnations as done by Dailledouze Bros., Flatbush, N. Y.; under their method of culture very prolific in bloom with good large flowers.

(6) Growth and bloom of American Beauty and other roses as grown on common drain tile benches by Bassett & Washburn. The perfect drainage produced by the tile is certainly an important factor in cultural conditions.

(7) The exhibit of carnations by W. N. Rudd at the Chicago meeting of the American Carnation Society, varieties Mayor Pingree, Mrs. McBurney, Jubilee and Flora Hill.

(9) The bench of bedded dracænas at Mr. Dressel's, Weehawken, N. J., indicates the possibility of growing this class of plants at a minimum of cost and in a most expeditious manner.

(9) The geraniums grown in pots by C. W. Johnson, gardener for W. N. Rudd, and exhibited in bloom at the Chicago chrysanthemum exhibition in November last. Their development showed what could be done with geraniums at our autumn exhibits.

(10) Chrysanthemum blooms grown by Alex. Montgomery, Waban Conservatories, and shown at the autumn exhibit of the Pennsylvania Horticultural Society. These were especially noteworthy on account of their fine finish and perfect contour.

(11) Bougainvillea glabra, as propagated, grown and flowered by Theo. F. Beckert, Glenfield, Pa.; especially praiseworthy.

I might go on indefinitely and cite instances of improved cultural methods as shown at various places, but the above will give some slight indication of the onward movement in plant development. Surely "the world do move," even in the floricultural world.

Recent noteworthy introductions:

Asparagus Sprengerii. This will prove of very wide value; it makes grand sprays for the table, for general use, and especially for flat bouquets, as it supports the flowers combined with it; its greatest beauty is seen as a pot or vase plant, standing, as it does, our hot suns. The two fine baskets hanging on the porch of

Mr. O. P. Bassett, Hinsdale, Ill., show its adaptability to this particular use.

Rose, Crimson Rambler. For the adornment of porch, trellis or pillar this is one of the most valuable introductions of recent years. As a plant for growing in pots for Easter, and for spring sales, this beautiful rose fills every requirement.

The other varieties, called ramblers of different colors, will not bear comparison with the first variety.

Begonia Gloire de Lorraine. This beautiful plant has all the charm and exquisite beauty of the flowering begonia. Extraordinarily fine when well done; requires special treatment during a portion of the year on account of its herbaceous habit and character.

Carnation, Mrs. Geo. M. Bradt. This variety, on account of its great size and freedom of bloom is one of the most striking of all Mr. Dorner's seedlings. This is unquestionably one of the desirable new things.

Carnation, Evelina. This promises to be an ideal white variety. The magnificent vases of flowers shown at various places the past season give promise of great value; it will have an extensive trial.

Chrysanthemum, Autumn Glory. This is one of the most charming of all pink chrysanthemums, having all the attributes of a splendid flower; its fine growth, but more especially its unique and beautiful color, places it in the front rank.

Rose, Lawrence Allen. An English hybrid; one of the last productions among the seedlings of the late Mr. Henry Bennett. This for pots, or forcing under glass, is one of the most charming roses sent out. A light satin-pink, of exquisite coloring, will prove excellent for Easter pot sales.

Geranium, Dryden. This is a novelty of the Mirande or Corona type. The flowers approach in size the larger of the single zonales. Coloring very intense. Has stood our hot summers with impunity. Will be extensively grown when better known, for its value both as a bedder and for pot culture.

Rose, H. P., Bladud. A very near approach to the long looked for white H. P. This is also one of the late Mr. Bennett's seedlings and is destined to be extensively grown when its good qualities are known. Seems to be more free in production of flowers than most hybrids.

Two showy crotons, Reidi and Baueri, both high in color and fine companions.

Deutzia Lemoinei. A fine addition to our forcing varieties of shrubs.

Cannas, acalyphas, geraniums, begonias, all show fine varieties of recent introduction. A candid review of the whole matter shows, however, that much of the credit belongs to the plantsmen across the water for these fine novelties in general lines, and the fact also stands out plain and distinct that we are much better off, relatively, in regard to new plants, than we were even two or three years ago. May the wheels of progress move on. Let us all be wide-awake, ready to take advantage of the evolution of the new condition of things, as we see it coming our way.

At the Exposition.

Friday was spent at the Trans-Mississippi Exposition and fervent were the words in which the visitors expressed their appreciation of the wonderful creation, the beautiful white city on the plains. Without exception the eastern representatives found it to far exceed their anticipations. The Nebraska building was headquarters and here lunch was served and felicitous speeches made. The Horticultural building was a center of attraction and so pleasing did most of the florists find the exposition that they will remain for other days of sight seeing.

The Man of Mars.

Henry Eichholz, of Waynesboro, Pa., is one of those fortunate men who know a good thing when they see it. Mr. Eichholz, whose portrait appears herewith, grasped his opportunity when he chanced upon the new dwarf geranium, Mars. The sale of this candidate for public favor surprised the man who gave it its introduction, for last year he sold 16,480 plants, one concern using as many as 6,750. Mr. Eichholz now has 5,000 plants in the field for stock and it is a sight to behold



HENRY EICHHOLZ.

them in bloom. Plants two years old are but ten inches high and have forty or even more flower stems at a time. Catalogue houses assure Mr. Eichholz that his geranium will be a leader in 1899 and call it the most useful introduction of recent years. Efforts are now being made to produce other colors of this new race of dwarfs for carpet bedding.

Although Mr. Eichholz has won his greatest fame on this new geranium he is a carnation grower of no mean ability. He devotes a large amount of glass to this flower and at present is making Daybreak his specialty. He is trying Evelina, Mrs. James Dean, White Cloud, Argyle, Mrs. Frances Joost and Empress and is growing Triumph, Armazindy, Flora Hill, Mrs. Bradt, Mayor Pingree, Lizzie McGowan and Portia in limited numbers. He has given Scott a three years' trial without getting it to bloom satisfactorily and will discard the variety. Admiral Dewey has again been honored as the namesake of a new carnation, a variegated pink sport of Armazindy, which Mr. Eichholz thinks will be heard from in due season.

CHESTER, PA.—Thomas F. Delahunt, at Twenty-first and Edgmont avenue, will erect an addition to his plant and make numerous improvements this fall.

An Unsolved Watering Problem.

Not long ago when a group of gardeners and florists were chatting together, the question of taking the chill off water in the winter before using it upon plants was discussed. The consensus of opinion was to the effect that it seems natural that water with the "chill off" was more congenial to plants growing in a temperature of not less than 56° at night, yet everyone present acknowledged that no comparative tests had ever been made to their knowledge, in order to prove the matter, one way or the other. One grower in relating his experience made the statement that he had only used water one season that had undergone the process of having the chill taken off, and during that whole season he had more red spider on the plants in his houses than he had ever had before or since in one season in an experience extending over some twenty-five years. He admitted, upon cross-questioning, that he would not like to blame the warmer water for the flourishing condition of the red spider, but rather that the men who had the manipulating of the hose were most at fault; yet he adhered to the idea that possibly growers paid more attention to the sentiment of the matter of warm water than to its practicability.

The temperature of water is deceptive. In my immediate locality wells are of varying depth, because some are dug wells while others are drilled, and every quencher of his thirst in summer time generally makes remarks as to the temperature of the water he is drinking. One of the oldest inhabitants, when imbibing at a drilled well last summer, stated that it was good water, but was not as cold as that from his own—a dug well. One investigator present at that time desiring to find out as far as possible how nearly our ancient friend was from being correct, secured a thermometer and in testing the water of the drilled well whence the water being drank was obtained, found that it registered just 56°. He tried several wells carefully in the neighborhood during the same day, both drilled and dug, with the same thermometer, and he found them all 56° without variation. My contention is that when water can be delivered to the plants not colder than 56° there is no necessity of going to the expense of making it warmer, as no injury can possibly result from administering water to plants that is no colder than the temperature, or at most a few degrees less, than that to which the plants are subjected at night.

There are various methods of securing water supplies. No plants were ever grown better than were those of former generations, when the water used was caught from the roof and stored in cisterns inside the greenhouse where the water contained therein is almost certain to be about the same temperature as the atmosphere of the greenhouse in which the cistern is located. The success attained by our forefathers was attributed, however, more to the rain-water used rather than the temperature thereof. In modern greenhouse establishments, be they commercial or amateur, the water supply has to be more systematically provided for; sometimes it is a windmill and a tank with ample capacity; at others some power more readily controlled is brought into service than the wind, such as steam, hot air, or electricity; but the best of all, when obtainable, is that furnished by a corporation or a municipality, if not too high in price. In most of the above methods, it is true, the temper-



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ature of the water is not readily controlled unless by a system of warming accomplished according to same primitive mode, or by the more up-to-date processes of the present day, which are in successful operation in different parts of the country.

The question is, At what temperature does water do injury to plants growing under gla s? Peter Henderson said in effect in his "Practical Floriculture," if my memory serves me correctly, that no evil resulted from the use of cold water upon plants growing in greenhouses, claiming that it is not necessary to warm it before use in sprinkling the leaves of the plants or watering them at the roots and stating that in a very short time it will attain the same temperature as the greenhouse in which it is used. If experiments have been made along these lines, and positive knowledge is in the possession of some good soul, I am sure there are numerous florists and gardeners, both old and young, who would receive the results with gratitude through the columns of your popular floricultural paper. E. L.

The Old Guard.

Every craftsman who ever went to Boston knows the Old Guard. They are beloved of their fellows for their generous hospitality and respected by all for their honorable business record. They know how to have a good time, and a holiday with the Old Guard is an experience one might well envy. Our illustration shows them as the guests of two of their number, Messrs. P. and E. J. Welch, at Old Orchard, Maine. They are not all Bostonians, for among the number are representatives of Providence, R. I.; Nashua, N. H.; and Portland Me. May they all live to enjoy many well-earned holidays.

Chrysanthemums.

Preparations should now be made for giving the plants in the benches liquid manure, and this we consider one of the most important operations connected with chrysanthemum culture. The main point is to have the plants and soil in proper condition at the time of applying the manure. We have found that when the plants are growing vigorously, and showing that greyish tint of the young foliage which is peculiar to healthy stock, they are in the right condition to receive stimulants if they are judiciously applied; that is, not to have the liquid too strong to start with, but to use it mild at first, increasing the strength gradually. At every stage the plants must be watched carefully in order to avoid carrying the application of manures too far. One can very soon tell when a plant has been given all the feeding it will bear, from an examination of the foliage. If it is at all brittle the supply of food must be reduced, not all at once but by easy stages.

Most varieties will need but little stimulant before the buds are set, except early propagated stock, which we feed lightly about three weeks before they set the bud, ceasing the application at the time the bud is forming, as the plant is then practically at a standstill. At this time, and till the bud can be seen plainly above the top leaves, we aim to keep the beds a little on the dry order. Of course there are varieties which have to be treated differently. For example, it is not to be expected that small foliaged sorts like Ivory, Golden Wedding, E. Dailledouze and others of that order, will require the same quantity of stimulant as vigorous growers, like Mayflower, Sunstone and Mrs. Jerome Jones. Again, most of the red varieties should receive but little liquid manure after they have formed the bud or they will be sure to burn on the petals.

It is impossible to prescribe any rule that will be applicable in every instance, as the strength and quantity of the manure must be determined by the soil conditions, and this knowledge is only acquired by long and careful observation.

There is one point in applying stimulants on which all chrysanthemum growers agree, and that is doing it in as little time and as cleanly as possible.

We use fifty-gallon barrels to hold the preparation and do not stick to one kind of manure but change it at every application, using about a bushel to a barrel of water, allowing it to stand a few days before using. We prepare several barrels of a mixture consisting of an ordinary bucket of bone meal and the same amount of soot to a barrel of water and let it stand from three weeks to a month before applying. We have found this an excellent aid to fine texture, both in foliage and bloom, and use it twice during the season. At the time the plants are able to assimilate the strongest stimulant we use a 3-inch pot of nitrate of soda with every barrel of the compound. This is applied through a Kinney pump, which dilutes the strength one half, so if cans were used we would figure accordingly.

C. W. JOHNSON.

Pittsfield, Ill.

George Hansen has exchanged eight of the twenty-four city lots which he owned in Springfield, Ill., for an establishment of two greenhouses here to which he is adding a third house. He lost 300 lights of glass by hail on the morning of August 15. Mr. Hansen has leased his Woodside greenhouse and his remaining sixteen lots in Springfield to Donnel & Wainscott.

Chicago.

A QUIET WEEK.—STOCK IN SOMEWHAT RESTRICTED SUPPLY.—MANY VISITORS IN TOWN.—CLEVELAND MEN HEAR BULLET'S WHISTLE.—OFF TO OMAHA.—NOTES AND COMMENTS.

This has been a quiet week in the wholesale markets. The supply of good stock has been somewhat restricted, but the demand has not been heavy enough to cause any material advance in prices. Really first-class Beauties are not obtainable, although several growers are sending in better blooms than the average of the summer flowers. The cut from new plants continues to improve in quality and increase in quantity, while prices continue fair. Of the summer roses the supply of good blooms has been none too great. The cut of carnations have not been of exceptional quality in the past two weeks, but the last seven days has seen better than those of the first half of the fortnight. Sweet peas are about over. Asters and other flowers are of reasonable quality and numerically equal to any emergency.

The city was full of visiting tradesmen on Saturday and Monday. The New York delegation, traveling in a private car, reached here early Monday morning, as did the Cleveland contingent. In the New York party were C. Weeber and wife, A. T. De La Mare and wife and Alex. Wallace, of the metropolis; W. E. Arnold and C. McGlynn, of Brooklyn: John G. Esler, Saddle River, N. J., W. H. Elliott, wife and son, Brighton, Mass.; Wm. Nilson, Woodlawn, N. Y.; E. Lenly, W. Hoboken, N. J.; Wm. Miller, Lynn, Mass.; C. Warburton, Fall River, Mass.; John Coombs and wife, Hartford, Conn.; L. B. Brague and wife, Hinsdale, Mass.

The contingent which Adam Graham brought to town had an uncomfortable experience while coming in on a Northwestern suburban train during the afternoon. Mr. Graham, H. A. Hart and S. N. Pentecost, of Cleveland, J. L. Dillon, Bloomsburg, Pa., E. H. Cushman, Euclid, O., and Robert George, Painsville, O., were seated near a car window through which a bullet crashed in such close proximity to their heads that had it been six inches either way one of the party must have been hit.

Many small parties and dozens of scattered members centered here for the trip west. It was unfortunate that the crowd was split into three parties, making the journey by as many different routes, but this was due more to rivalry in railroad circles than to anything accomplished or attempted by the various delegations. The parties going via the Burlington and Northwestern lines reached Omaha on time Tuesday morning, but the delegation on the C. M. & St. P. railway, the largest of the three, was delayed in Illinois for three hours by washouts caused by one of the heaviest storms in years. Those who traveled on this line were: A. Schmitt, H. A. Balsley, J. C. Vaughan, Robert George, Adam Graham, H. A. Hart, S. N. Pentescost, C. B. Whitnall, M. Barker, R. Vincent, Jr., and Mrs. Vincent, A. Klokner, Herman Hunkel, G. H. Rackham, J. V. Merrion, W. F. Kasting, Geo. Darby, Walter Kreitling, Carl Cropp, John Reardon, W. F. Palinsky, W. N. Rudd, J. B. Deamud and Mrs. Deamud, H. D. Rohrer and son, Nick Zweifel, Fred J. King, C. H. Cushman, E. H. Giesy, J. E. Yeats, J. A. Kramer, W. B. Perry, W. T. Symonds, N. J. Rupp, E. M. Wood, J. S. Wilson and Miss Minnie C. Binder, representing J. M. Gasser, Cleveland, O.

Philadelphia.

SMALL CROWD SENT TO OMAHA.—THE BOWLERS ARE IN IT.—BUSINESS CONTINUES QUIET.—THE TRIP TO DREER'S AT RIVERTON.—HUNDREDS PARTICIPATED IN THE PLEASURES OF THE DAY.—A MAMMOTH ESTABLISHMENT AND SUPERIOR STOCK.

It was a small but loyal band that left the City of Brotherly Love last Sunday afternoon for the Omaha convention. Had there been a shoot on the programme probably as many more would have joined the party, as the gunners are of blooded stock. A bowling team was finally gathered and formed a part of the delegation. Such another doleful meeting as was held by the bowling club last Thursday week we hope it will not be our lot to attend. One bowler after another announced that he could not go. Finally President Westcott stood alone, but he was determined, and if the cup shall grace our shelves again, to him will be given the credit first, and then the boys who helped will also come in for their share. They are sure of a royal welcome, trophy or no trophy, as we know they will do their best.

Business is about as usual for the season. Beauties are becoming more plentiful, but the quality is lacking. In their first state they seem so small and take such a short time to develop into full blown flowers that they are not very satisfactory. Kaiserins are fine, but only do for mortuaries. Some very choice asters are to be seen. The stock from inside is now coming along nicely and seems to be quite an improvement over that of last season. Fifty cents to $1.50 per hundred is the price. Hydrangea paniculata, with its abundance of snowy heads, helps out the display nicely and is doubly useful when a large white flower order is received.

The visit to Dreer's, at Riverton, last Tuesday afternoon was most thoroughly enjoyed by all present, and this means by about 1600 people who are, with but few exceptions, identified with the business in one branch or another in or about this city. It much resembled a last day convention crowd of the S. A. F. Everything was in the best of order and there was not a bad bench of stock or an idle corner anywhere about the place. The plants in all departments were the picture of health. The long tables in the packing shed were filled with orders selected to go away, but the stock is so vast that there seemed no holes in the houses where they could have come from.

Mr. Tricker's water lily ponds were surrounded by admirers all day long, the Victoria regia and V. Trickerii being especially attractive. There were many other choice and rare varieties that bore close inspection and called forth words of praise. The near future will certainly find a water lily pond on every well furnished lawn. After a stroll about the grounds and houses a collation was enjoyed on the lawn adjoining the mansion, where, when the interest was greatest, a photographer gathered them all in. An orchestra furnished good music, which was so entrancing that in some the Scottish blood was aroused and a highland fling and sword dance was the result. It was late in the afternoon when the boats were again boarded for the return to the city and all aboard expressed their great pleasure in having been able to be present.

The oldest visitor was John Dick, who, accompanied by his daughter, seemed to greatly admire the immense collection of plants and flowers. The original houses, built some twenty-five years ago, are now being torn down. They were 10x100 with walls thirteen inches thick and are being replaced by structures 22x100 with an improved dove-tailed gutter that has only to be thoroughly white leaded to be waterproof.

George M. Moss, wholesale florist, is the sign that will appear at 30 South Seventeenth street on September 1. Mr. Moss reports having secured a number of consignors, growers of good stock, and will stand ready at that time to execute all orders, entrusted to him, with the best stock the season affords.

Robert Curry and wife, of Columbus, Ohio, have been spending a few days in this city.

Charles Fox and Charles, Jr., are summering at Wildwood, N. J. What fish stories they will have to tell on their return! K.

Boston.

THE GARDEN COMMITTEE OF THE MASSACHUSETTS HORTICULTURAL SOCIETY PAYS A VISIT TO THE GARDENS OF MR. G. M. WHITIN, AT WHITINSVILLE, AND SEES MANY THINGS OF INTEREST.

The visit of the garden committee and others active in the affairs of the Massachusetts Horticultural Society to the grounds of Mr. G. M. Whitin, at Whitinsville, on August 10, was an occasion of rare enjoyment to lovers of ornamental horticulture. George McWilliam, who has had charge of this place for the past fourteen years, is well known to the craft for his remarkable skill in the production of fine specimens of plants of difficult culture, and a foretaste of what the visitors might expect to see has been frequently given in the exhibition halls of the Massachusetts Horticultural Society.

Mr. McWilliam met the delegation, numbering about twenty, at the station, and the drive through this, the most prosperous manufacturing town in the commonwealth, where five generations of Lasells and Whitins have operated the mills and factories and strikes and discontent are unknown, was thoroughly enjoyed. After admiring the fine old trees and other external adornments of the estate the visitors were escorted through the greenhouses, where were seen ferns of rare beauty, alocasias, caladiums and stove plants in infinite variety and perfection of growth, and beautiful dipladenias in all shades of pink and rose hung in luxuriance from the roof. The collection of orchids was found to be very extensive, and one house of calanthes in shallow pans showed amazing luxuriance that gave promise of an unprecedented floral display at Christmas time. Among other things Dipladenia Boliviensis well bloomed in small pots were particularly admired. The grape houses excited the old experts as nothing else could, and the long arches of luscious pendant bunches whetted appetites that later on were fully appeased with a liberal supply of the tempting fruit. An appetizing lunch was served in the reception room of the bowling alley after which the boys had to have a try at the alleys. A little odontoglossum house 6x35 heated by a kerosene stove and a coil of one and one-fourth inch pipe and a mushroom house seventy-five feet long with 290 feet of pipe heated by an electric current run through a little boiler with a capacity of about two quarts of water were among the interesting things seen here, and many predictions were made that the time would soon come when for small conservatories, and possibly large ones, electric heating would be universally adopted.

THE AMERICAN FLORIST

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

WILLIE TIFFANY, of the Rosary, New York, who went to Cuba with Roosevelt's Rough Riders, won a lieutenancy at Santiago and has come home ill.

AT the Paris exposition of 1900 ample space will be allotted to horticulture. There are to be eighteen groups comprising 120 classes in the entire exhibition.

IN New York notes of last week the types made us say "Carnations in the field are lacking," instead of "Carnations in the field are looking well," as was intended and as is true.

ENGLISH horticulturists contend that carnation plants raised from layers are better for winter flowering than those propagated by cuttings, as is the universal practice in America.

IN Japan cut chrysanthemum blooms are kept fresh for many days by charring the end of the stem with a splint of lighted wood and then frequently changing the water in which the flower stands.

THE AMERICAN FLORIST'S Convention Special, issued at Omaha on the first and second days of the annual meeting, contained the name of every member present, where obtainable. Copies will be mailed free upon application as long as the supply suffices.

THE peppermint growers of Michigan are this year securing hardly half the usual product of oil. In some cases the yield is only ten or twelve pounds to the acre and the only hope of the growers is that the shortage will result in a rise in price.

JOHN BEIMFORD, of Wilton Junction, Iowa, writes to suggest that bisulphide of carbon be tried as a remedy for the disease brought upon Harrisii lily bulbs by mites. He is of the opinion that this preparation should be effective, and believes that it could be applied cheaply and without injury to the bulbs. About a year ago Mr. A. F. Woods, of the Department of Agriculture, advised the use of hydrocyanic acid gas, but so far no information has come to hand in demonstration of its utility for the purpose specified.

Paint for Heating Pipes.

ED. AM. FLORIST:—Would you please let me know through your paper what kind of paint I can use to put on the pipes in my greenhouse so as not to injure the plants? P. L.

About the best for the purpose is composed of linseed oil and lamp-black, enough of the latter being used to give a fair body to the paint. This gives a dull rough surface which will radiate more heat than asphaltum and other glossy paints, which are sometimes used.

L. R. TAFT.

The Peach Twig Borer.

This insect is described in a recent farmer's bulletin of the Department of Agriculture. It is said to be a serious menace to peach growing from its habit of killing the young tips of the branches and thus checking the growth. It is spreading to all parts of the country. The kerosene emulsion spray, however, effectually controls it.

The Dutch Horticulturists.

At the July meeting of the Dutch Horticultural and Botanical Society, held in Amsterdam, the floral committee made the following awards: First-class certificates to C. Kwint, for Begonia tuberosa fl. pl. cristata; E. H. Krelage & Son, for Begonia tuberosa fl. pl., Orange ball, Begonia tuberosa fl. pl., Souvenir de Pierre Notting, Calochortus Gunnisoni and Petunia Sneeuwbal; C. G. Van Dijk, for Schubertia grandiflora. Certificates of merit to E. H. Krelage & Son, for Ageratum Blue Perfection and Helenium Bigelowi; Botanical certificates to E. H. Krelage & Son, for Calochortus obispoensis and Lilium elegans Alice Wilson.

Greenhouse Building.

New Bedford, Conn.—John Joseph, one commercial house.

Chattanooga, Tenn.—Conservatory at East Lake Park.

Faribault, Minn.—Clarine Bros., additional house for winter forcing.

Woodmere, Mich. — Chas. Warncke, thoroughly modern greenhouse.

Pittsfield, Ill.—Geo. Hansen, one greenhouse.

Beaver Falls, Pa.—Louis Sutter, one commercial house 16x30.

DeKalb, Ill.—Jacob Haish, one house 22x45.

Fairbury, Ill.—Kring Bros., one carnation house.

Erie, Pa.—Schluraff Floral Co., one commercial house.

The Price of Glass.

Frank Hayes, of the H. M. Hooker Company, states that, in accordance with the usual custom, no window glass has been made in America since June 30, and that it is doubtful if the factories start up before October 15. The unusual demand for glass this season has resulted in a shortage and the supply of greenhouse sizes is nearly exhausted. The price has steadily advanced until fifty feet of 16x24 now cost more than $4, even if purchased in car load lots. Last week 34,000 boxes of so-called French glass were imported from Belgium, and this is the only thing which has prevented quotations soaring to unprecedented altitudes. But now comes the report that a strike for higher wages is imminent among Belgian glass makers, and the situation affords no ray of hope for a reduction this fall in the cost of greenhouse roofing.

Catalogues and Cut Flower Price Lists Received.

J. C. Schmidt, Erfurt, Germany, florists' supplies; Herb & Wulle, Naples, Italy, bulbs; Henry F. Michell, Philadelphia, Pa., bulbs and seeds; Kromer & Thieme, Rio de Janeiro, orchids; Wm. F. Kasting, Buffalo, N. Y., cut flowers; Holton & Hunkel Co., Milwaukee, Wis., cut flowers; Cincinnati Cut Flower Co., Cincinnati, O., cut flowers; Charles D. Ball, Philadelphia, Pa., palms; H. F. Littlefield, Worcester, Mass., wire; G. C. Watson, Philadelphia, Pa., mushrooms; The Walker Fertilizer Co., Clifton Springs, N. Y., fertilizers; Jos. Dixon Crucible Co., Jersey City, N. J., paint; Giblin & Co., Utica, N. Y., boilers; P. J. Berckman Company, Augusta, Ga., nursery stock; C. H. Joosten, New York, N. Y., bulbs; Friedr. C. Pomrencke, Altona-Hamburg, Germany, bulbs; John Peed & Sons, West Norwood, London, S. E., England, bulbs.

Fertilizer Cartridges.

In the AMERICAN FLORIST of June 18 I notice a somewhat fanciful description of M. Truffant's appliance and some no less fanciful comments on the importance of this novel method of applying plant food as to the ultimate result. It is quite amusing to see how readily certain people exert their criticism upon things which they have never seen and which they know nothing about. Such appears to be the case with the writer of the article alluded to, who makes use of the letter "X" as a signature.

I would tell "X" that the cartridges are entirely surrounded by the metallic envelope, and that the dissolution of the fertilizer they contain takes place through the folds of that envelope. Then the fertilizer is in an immediately soluble form, but to prevent a too rapid dissolution, which would be pernicious, the cartridges are submitted to a very considerable compression so that the waterings dissolve the fertilizer little by little according to the requirements of the plant treated.

These cartridges are more especially intended for amateurs' use, and I must say that this method is eminently practical and safe. It does away with any danger of burning the roots by too strong a dose and with any, to amateurs generally, troublesome preparation of fertilizing solutions. Florists may use instead the compressed blocks, without metallic envelope, which have their weight regulated to so many gallons of water and which dissolve in a few minutes.

This much for the cartridges, but as to the value of the fertilzer they contain, I wish "X" had experimented before passing his inconsiderate judgment. He "smiles audibly" at M. Truffant's long list of formulas. It would have proven much in his favor if he had kept that audible smile to himself, and I might retort that I laughed aloud and right heartily at his opinion. From what "X" writes I must take it for granted that he is one of those men who think that one formula will do equally well for any class of plants, for a palm as for a carrot for instance. Fifty years back "X" might have found no one to contradict him, but those days have happily gone by. Horticulture has largely taken advantage of the discoveries of modern science, and those men who are not awake to progress will soon know what it costs to stick to old empiric methods.

One general formula for each and every class of plants is just such nonsense as one specific for each and every malady of the human kind. And precisely therein lies the remarkable value of M. Truffant's work. He has analyzed hundreds of different kinds of plants and composed for each a fertilizer which is exactly suited to its needs and given in such a form as is best adapted to its special requirements. This is the only scientifically true manner of proceeding; all the rest is nothing but empiricism. If "X" could only see the results obtained by the aid of M. Truffant's fertilizers, he would no doubt cease immediately his "audible smile" and

think about who was the dude at the hickory pole in this case. Should the matter evince further interest on the part of the readers of the AMERICAN FLORIST I am quite ready to give more particulars on that, for every plant grower, most important subject. Before closing this I would only say that the zonal pelargoniums so highly spoken of by the Paris correspondent of the AMERICAN FLORIST were all cultivated with the aid of M. Truffant's special pelargonium fertilizer and the two exhibitors alluded to are quite enraptured with the results, as are also the numerous brethren who are experimenting this year in most European countries. H. FATZER.

Quessy, Aisne, France.

Lancaster, Pa.

Trade the last few weeks has been very quiet, yet some improvement over former years is noticed and the coming season is expected to run far ahead of last year.

Outdoor flowers are very scarce, owing to the long continued drought, which was broken last week by two days' rain, coming in time to make good field-grown stock. Carnations are scarce, with little demand. Roses appear to be the prevailing flower, retailing from 50 cents to $1 per dozen, the majority going at the former price. Sweet peas are poor, with but little call. Asters are coming in and selling at 25 cents to 35 cents per dozen.

Harry Schroyer, a son of Geo. Schroyer, the pioneer florist of Lancaster, and Mrs. Schroyer have gone on an extended trip to the west and Mr. and Mrs. Albert M. Herr and Henry Rohrer and son left last week expecting to wind up at the convention.

Mr. Herr, the carnation specialist, has given his houses a complete renovating and has remodeled a range of narrow houses running north and south, the paths being changed from the center of the houses to directly underneath the girders, thereby gaining valuable planting surface. He will plant extensively of the newer sorts, some 2500 each of Gold Nugget, Mrs. Bradt and Alba Superba, and 1000 each of Argyle, Mrs. Frances Joost, Wellesley and Genesee, and from 100 to 500 each of John Young, White Cloud, Jack Frost, New York, Red Jacket and Evelina. The leading varieties will be housed in quantity, especially Flora Hill, Jubilee, Triumph and Armazindy. He has on trial for introduction to the eastern trade 6,000 California novelties, some twelve varieties, that will be on exhibition at the meeting of the American Carnation Society in Philadelphia next February.

George Schroyer, who grows miscelianeous stock for his down-town store, has an especially fine lot of asters ranging from those in bloom to very small seedlings which will come on in timely succession. He has one house of chrysanthemums which look promising. After the chrysanthemums are out he devotes the house to azaleas, which are imported direct. Beauty, Mermet, Maid, La France and Meteor roses are grown on solid beds and on benches, the former preferred. He has one house of Mermets planted eight years ago that exceed either of the bench beds. Carnations are also extensively grown in solid beds, as well as both California and Marie Louise violets.

Lemon Landis, of the firm of Landis & Co., has built a range of fourteen houses, each 14x50 feet, to be devoted exclusively to carnations, principally Scott, Triumph, Flora Hill, McGowan, Thos. Cartledge and Jubilee, all planted on solid beds. The plant is heated by steam (low pressure), 1-inch pipe being used, with two flows and four returns to each house. The firm devotes five houses to roses, Brides, Maids and Perles all being planted on bench beds, which they are now drying off to carry over another season, this being tried last season with success. A house of California violets, planted from pots early in July, looks promising.

John Stewart, successor to Edwin Conroy, on the Stemman property, has given the greenhouses a thorough overhauling and has torn out the solid beds and substituted benches. He claims the solid bed system to be a thing of the past. He has one house each of Bride, Bridesmaid and Kaiserin roses for summer blooming, grafted stock, on trial. They show some improvement over stock on their own roots, having better stems and larger flowers. He housed his carnations in June from pots and a nice lot of chrysanthemums are to be seen here.

Henry Rohrer, who has built some 40,000 feet of glass in the last three years, the houses running north and south, even span, is making carnations a specialty. He housed his plants in June and claims that stock grown inside all summer requires less staking than when grown outside and that the results in general are better. Solid beds predominate and the plant is heated by hot water. The varieties grown in quantity are Jubilee, Flora Hill and Thomas Cartledge, with a general collection of the novelties. Mr. Rohrer uses one part jadoo to two parts soil in potting his carnations. The stock in general deserves credit and the whole plant is kept in splendid order at all times.

Colin Ogston, who has the reputation of being an expert grower, has charge of B. F. Barr's establishment. In roses he has planted one house each of Brides, Maids, Meteors and Beauties. Heretofore everything has been grown here on solid beds, which are being torn out, and bench beds substituted, the benches being placed eight inches from the sides upon which the heating pipes are placed. Two houses of chrysanthemums of all the leading varieties, with many novelties, look well. When the chrysanthemums are out the houses will be planted with sweet peas and violets from 4-inch pots. Mr. Barr will plant 35,000 carnations, principally Triumph, Jubilee, Scott, Flora Hill, McGowan and Thos. Cartledge. A complete assortment of miscellaneous stock is grown in pots, including about 1000 cyclamen, which deserve special mention. They are grown in frames on the north side of a house, the largest being shifted into 7-inch pots. A 100 horse-power boiler is being put in and the steam heating apparatus altered considerably. The houses in general are being remodeled and completely renovated.

B. F. B.

FORT COLLINS, NEB.—Jacob H. Corven, assistant botanist and horticulturist at the State Agricultural College, has resigned to take a post graduate course at Cornell University and has been succeeded by Carl Hall Potter.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED—By married man. German, grower of roses, carnations, 'mums and general stock. References. Address
F S, care American Florist, Chicago.

SITUATION WANTED—By young man for genera greenhouse work; 7 years' experience; sober and reliable. References. Address
LAWRENCE, 2638 Garfield Ave., Lincoln, Neb.

SITUATION WANTED—As foreman by first-class Beauty grower; competent to take full charge of commercial place. Married. Good references.
G H, North Wales, Pa.

SITUATION WANTED—By single man, for general greenhouse work; six years' experience in large establishment; 23 years old; sober, reliable. Address
FLORIST, 1456 W. Madison St., Chicago.

SITUATION WANTED—As foreman in large cut flower growing establishment by an A1 grower; 25 years' experience; best reference. Only reliable parties need apply. Address
ROSEGROWER, care American Florist.

SITUATION WANTED—By practical rose grower—up-to-date; would like to have charge where fancy roses are in demand. To reliable parties, the greatest satisfaction assured. For further information address
AMERICAN BEAUTY, care American Florist.

SITUATION WANTED—By experienced florist, as foreman; good commercial or private position. Specialties fine roses, carnations, 'mums, violets. Good designer. Best references. Address
G, P. O. Box 54, De Haven, Allegheny Co., Pa.

WANTED—Rosegrower; state wages wanted with board. Address
COLE BROS., Box 577, Peoria, Ill.

WANTED—A No. 3 Smith, or No. 15 Hitchings hot water boiler. Address
GEO. E. CAMPBELL, 3601 Germantown Ave., Phila.

WANTED AT ONCE—A good 'mum grower; must come well recommended. Single man preferred.
NANZ & NEUNER, Louisville, Ky.

WANTED—Rosegrower, to board with family; also a man accustomed to general greenh use work. Address, stating wages. M M, care Am Florist.

WANTED—Competent, practical and responsible grower to take charge of store and greenhouses of wholesale and retail florist business in a western city. Address B B, care American Florist.

WANTED—Young or middle aged, single man, to milk cows and fire greenhouses nights. Must be sober, reliable and industrious. Address
LAKEVIEW FLOWER STORE,
Opera House Building, Lexington, Ky.

FOR SALE—Four greenhouses, near y new. Good retail stand. A. CLAUS, Springfield, Ill.

FOR RENT—Good paying retail houses, new, of 5000 feet, in city of over 20,000. Renter to buy stock.
A R, care American Florist, Chicago.

FOR SALE OR RENT—Good retail stand, 5000 feet of glass (new), has never paid less than $1300 per year net. Must buy stock. Reason for quitting, failing health. Address ILL, care Am. Florist.

FOR RENT—To reliable party, the old establishment consisting of 11 greenhouses; 16,000 feet of glass; newly rebuilt; also store; finest location in Chicago; cause poor health. GARFIELD PARK FLORAL CO.,
1688 W. Madison St., Chicago.

FOR SALE—Leading florist business in western city; store connected with conservatory in principal hotel; 6000 feet of glass, and houses for 10,000 feet more, all except the roofs, in good condition, including plants, and full equipment. Terms to suit. Address
WESTERN, care American Florist.

WANTED!

Two or more sections of a Carmody hot water heater. Address
C. C. WONNEMAN, Florist Mexico, Mo.

FOR SALE!

A florist establishment for sale consisting of 13,000 sq. ft. of glass, in good condition. Heated by steam; in the city limits, located in a city of 18,000 inhabitants on the Mississippi river in Iowa, with several acres of land and dwelling house; must sell soon on account of old age. For further particulars address
IOWA, care American Florist.

FOR SALE.

FIFTY HORSE POWER BOILER with front and fittings complete, F. O. B. $100.00. Is in first class condition, in use only five years heating school at low pressure.....
Address JOSEPH KIFT, West Chester, Pa.

CHICAGO LOTS FOR SALE

One block from corner of Lincoln Avenue and Wellington Street, a bunch of lots at $25.00 per front foot; sewer and water. Suitable for greenhouse purposes.
JAMES ROOD, Jr.,
Tel. Main 3868. Room 5, 154 Lake St., Chicago.

GEORGE M. MOSS,

Wholesale Florist,

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CINCINNATI, Aug. 18.

Roses, Brides, Bridesmaids	2 00@ 3.00
" Meteors	3.00
" Perles	2.00@ 3.00
Carnations	.75@1 00
Tuberose	3.00
Gladioli	2.00@ 3 00
Smilax	10.00@12.50
Adiantum	1.00
Asparagus	50.00
Asters	1.00
Common ferns	.20

ST. LOUIS, Aug. 18.

Roses, Beauties	3 00@15 00
" Meteors	2.00@ 5 00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	2.00@ 3.00
" Kaiserins	2.00@ 6.00
Carnations	.75@ 1.00
Asters	1.00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@75 00
Gladioli	2 00
Tuberose stalks, single and double	5 00

MILWAUKEE, Aug. 18.

Roses, Beauties	5 00@20.00
" Brides, Bridesmaids	2 00@ 4 00
" Perles	1 00@ 3.00
" Meteors	2 00@ 4 00
" Kaserins	2.00@ 5.00
Carnations	.50@ 1.00
Sweet peas	10@ .15
Gladioli	3.00@14 00
Smilax	12.50@15 00
Adiantum	.75@ 1.00
Common ferns	.20
Asparagus	50.00
Asters	.50@ 1 00

BUFFALO, Aug. 18.

Roses, Beauties	5.00@25 00
" Brides, Bridesmaids	2.00@ 6.00
" Meteors	2.00@ 6.00
" Perles, Niphetos	1.00@ 3 00
" Kaiserins	2.00@ 6.00
Carnations, ordinary	.75@ 1 25
" fancies	1.25@ 2.00
Lily of the valley	4 00@ 5 00
Smilax	10 00@15.00
Auratum lilies	8.00@10.00
Album roseum lilies	5 00@ 6.00
Asters	.50@ 1 50
Adiantum	1.00@ 1.25
Asparagus	50 00@75.00
Gladioli	1.50@ 3 00

LOUISVILLE, Aug. 18.

Roses, Beauties, per dozen	.75@1.50
" Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" Kaiserins	2.00@ 4 00
" Perles	1.50@ 2.00
Carnations, fancy	1.25@ 1.50
" common	1.00
Mignonettes	.25
Smilax, per dozen	1.25@ 2.00
Adiantum	.75
Asparagus, per string	.50
Dagger ferns	per M. $1.00

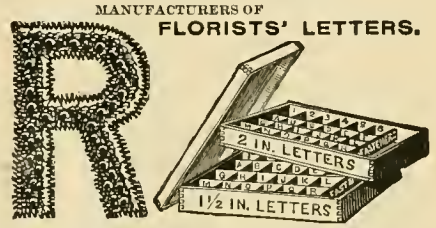
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Wholesale Flower Markets

CHICAGO, Aug. 19.

Roses, Beauties.....per doz.	.75@2.50
" Brides	1.00@ 3.00
" Meteors, Kaiserins	1.00@ 4.00
" Bridesmaids	1.00@ 3.00
" Siebrecht Perles	1.00@ 3.00
" Testouts	1.00@ 3.00
Carnations, common	.40@ 1.25
Asters	1.00@ 2.00
Auratum lilies	6.00@ 8.00
Harrisii	3.00@ 4.00
Lily of the valley	3.00@ 5.00
Sweet peas	.04@ .08
Gladioli	2.00@ 4.00
Adiantum	.50@ 1.00
Common ferns	.20
Smilax	8.00@10.00
Asparagus	40.00@75.00
Pansies	.25

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Price list on application.

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NEW YORK, Aug. 17.

Roses, Beauties	5.00@25.00
" Bridesmaids, Testouts, Brides	.50@ 3.00
" Morgans, Meteors	2.00@ 6.00
Carnations	.50@ .75
Lily of the valley	1.00@ 3.00
Sweet peas, per 100 bunches	.75@1.00
Smilax	8.00@10.00
Asparagus	40.00@50.00
Cattleyas	25.00@40.00
Asters	.25@ .40

BOSTON, Aug. 17.

Roses, Beauties	5.00@25.00
" Morgans, Meteors	2.00@ 4.00
" Brides, Bridesmaids	1.00@ 4.00
Carnations	.50@ .75
Lily of the valley	2.00@ 3.00
Sweet peas	.10@ .15
Smilax	10.00@12.00
Asparagus	50.00
Adiantum	.50@ .75
Asters	.40@ .50

PHILADELPHIA, Aug. 17.

Roses, Beauties	3.00@16.00
" Brides, Bridesmaids	2.00@ 4.00
" Kaiserins, Meteors	2.00@ 5.00
Carnations	.50@ .75
Lily of the valley, gladioli	2.00@ 4.00
Japanese lilies	4.00@ 6.00
Sweet peas	.15@ .25
Cattleyas	35.00@40.00
Smilax	12.00@15.00
Asparagus	25.00@35.00
Adiantum	.50@ .75

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AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

MELONS in Douglas county, Neb., were hardly ripe enough for the use of the members at the convention.

HOERMANN & CLEARY, proprietors of the J. A. Foote seed store, Terre Haute, Ind., have purchased the stock of F. J. Feidler.

L. C. BOBBINK, American representative of the Horticultural Company, Boskoop, and Rudolph Van Til & Co., Hillegom, Holland, returned August 15 from his European trip.

ADAMS, MASS.—T. D. Brown made a contract on August 13, for the erection of a greenhouse in this city. He has been doing quite a business in seeds and bulbs for the past three years.

AMONG those interested in the seed trade attending the Omaha convention of the Society of American Florists were W. F. Dreer, L. L. May, C. G. Weeber, C. Cropp, J. C. Robinson, Frank T. Emerson, S. D. Dysinger, Fred. H. Bateman and others.

Holland Bulb Prospects.

The Bulb and Seed Merchants' Society under the name of "Bloemistenvereeniging" at Haarlem, with the object of promoting the interests of the bulb trade, held an extraordinary meeting on July 18, 1898, in order to discuss the conditions of the bulb crop in consequence of the unfavorable weather. It was agreed, that each firm should inform his traders of the situation in the following words:

The hyacinth bulbs in general will not have their usual size and good bulbs of many varieties will be very scarce.

Tulip bulbs in general are of medium size.

American Seed Growing.

Apropos of Prof. Waugh's remarks in reference to want of uniformity among plants of new varieties I might mention my own experience the present season with a new pansy. The seed was supplied by one of the foremost seedsmen of the United States, with the object of securing a suitable name for the pansy from among those suggested by the growers of the variety. In the description it is said that "the coloring in this variety is a marvel of richness, velvety garnet, bright red and golden yellow indescribably blended." I secured twenty-seven plants from the package of seed and all of them are now in blossom, yet no two in the entire lot have flowers exactly alike. In most of them "velvety garnet, bright red and golden yellow are indescribably blended," but in one the two upper petals are a uniform light garnet, while the three lower are a very dark garnet splashed with yellow; in a second the two upper petals are yellow with pencilings of garnet and the three lower, garnet shading to a yellow margin, while in a third all the petals have a reddish ground-color with pencilings and shadings of black. Almost any one of the different forms is worthy of a place among pansies but the difficulty is that the type has not as yet been "fixed" and a grower sowing the seed from any of them, would have no certainty what color the flowers on the resulting plants would be. The originator should have continued several years longer to select seed from flowers which came nearest to his ideal and then there might be so little variation that it would be possible to suggest a suitable name. The only name that I could now propose which would be in the least appropriate would be "The Pied Piper," and even that would have to be put in the plural, "The Pied Pipers," in order to cover all the variations of coloring. F. C. SEARS.

Wolfville, Nova Scotia.

NEWS NOTES.

KIOWA, KAN.—Hon. O. P. T. Ewell has just completed a conservatory that eclipses everything in this section.

MIDDLETOWN, DEL.—J. B. Lippincott has sold his greenhouse to J. E. Steele, of Henderson, Md.

ROCKVILLE, IND.—D. A. Graham is rebuilding a portion of his establishment. He finds trade very good this year.

ELLSWORTH, ME.—A. C. Stofell and Henry Graves have formed a copartnership and leased the Dutton greenhouses.

AUGUSTA, GA.—The establishment of the late Julius L. Huss has been sold to J. F. Huss, of Lenox, Mass., a brother of the deceased, who will conduct it under the management of Henry Balk.

MUSCATINE, IOWA.—The greenhouses which have been run by Emil Kranz have been leased for a term of five years to August Smith, of New York, who will take possession on September 9.

VENTURA, CAL.—The extremely dry season has made trade very unprofitable this summer. All outside stock has suffered a great deal but what survives the drought in good shape will command an excellent price next winter.

ATLANTA, GA.—The greenhouses of the Brookwood Floral Co. were recently damaged by fire, which started in the packing shed, completely destroying it and scorching three rose houses, and a carnation and violet house, doing considerable damage to stock.

EVANSVILLE, IND.—Levi D. Lockyear, who has been a gardener and florist here for thirty-three years, died after a long illness. He was born in Aylesbury, Devonshire, England, July 12, 1837, and came to America in 1865. Mrs. Lockyear and six children survive him.

MONTGOMERY, ALA.—The Highland Park Greenhouses, G. E. Luffman, manager, have been sold to W. B. Paterson of the Rosemont Gardens. He will run both places as they are close together. Montgomery is growing rapidly, and business is keeping pace with the development of the city.



TRY DREER'S GARDEN SEEDS,
Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
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August Rölker & Sons
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with Choicest Seeds, Bulbs and all Florists' Supplies; many choice Novelties offered for the fall trade. . . .
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52 Dey Street, NEW YORK.



A Profitable Side Crop.
The tomato is one of the profitable side crops for the florist if properly handled. An important item in proper handling is to start right by getting proper seed. Experience has proven the "Lorillard" the best forcing variety so far; but much of the seed now on the market is not carefully selected as to type I have taken pains to find something free from this objection and have pleasure in offering
Lorillard Forcing Tomato...
Specially saved for my trade by the originator, Mr. Jno. Gardner. Pkts., 25c, 50c and $1.00 free by mail. Bulk price on application.
Sutton's Best of All Forcing Tomato
Has done remarkably well with those who tried it the past season. I do not know how it is for outside, but it's a dandy for forcing; large, round, deep scarlet very prolific. Pkt. 10c. mailed free. (No bulk of this to offer at present). Give this new sort a trial. Stamps accepted for small amounts.
GEORGE C. WATSON
Seedsman.....
Juniper & Walnut Streets.
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COLD STORAGE VALLEY ALWAYS ON HAND.
CASES of 2500 pips, extra quality, $25.00; per 100 $12.00.
CASES of 3000 pips, good quality, $25.00; pe 1000, $10.00.
CLUCAS & BODDINGTON CO.,
501 & 503 West 13th St., NEW YORK CITY.
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(FOR FORCING)
"ENGLISH" MELONS
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FLOWER SEEDS FOR FLORISTS
Catalogues on application.
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SEEDS LAWN GRASS $12.00 per 100 lbs.
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RECLEANER AND JOBBER GRASS SEEDS.
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FIRST SIZE, 1¼ to 1½-in. in diam.....	$.75	$5 50
SELECT, about 1½ to 1¾-in. in diam....	1.25	7.00
EXTRA SELECT, about 2 to 2½-in. diam.	1.50	10.00

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Mention the American Florist.

MEETING SOVEREIGN GRAND LODGE, I. O. O. F., BOSTON, MASS, SEPT. 19-24.

For this occasion the Nickel Plate Road will sell tickets at rate of one fare for the round trip. Tickets on sale September 16th to 18th, inclusive, good returning until September 30th, inclusive. For particulars address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (59)

Don't forget the excursion to Boston over the Nickel Plate Road, September 16th to 18th, inclusive, at rate of $19.00 tor the round trip. Good returning until September 30, 1898, inclusive. Telephone Main 3389. (61)



FINE FERNS

FOR FLORISTS.

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	Inch Pots.	Per 100.	1000.
ADIANTUM—			
Cuneatum	2	$3.00	$25.00
"	3	6.00	50 00
" Variegatum	2	6.00	
" Grandiceps	2	6 00	
Decorum	2	4 00	35.00
Pubescens	2	3.00	25.00
"	3	5.00	40.00
CYRTOMIUM—			
Falcatum	2¼	5.00	40 00
"	3	6.00	
Fortuni	2	6.00	
LASTREA—			
Aristata Variegata	2	6 00	50.00
Lepidota	2	4.00	45 00
Opaca	2¼	5 00	40.00
LOMARIA—			
Gibba	2¼	5 00	40.00
Ciliata	2¼	5.00	40.00
MICROLEPIA Hispida	2	$6.00	
NEPHRODIUM Hertipes	2	5.00	$40.00
ONYCHIUM Japonicum	2¼	3.00	25.00
PLATYLOMA Falcata	2¼	5.00	40.00
POLYPODIUM Aureum	2¼	5.00	40.00
POLYSTICHUM Coreaceum	2¼	6 00	
PTERIS—			
Adiantoides	2¼	3.00	25.00
Cretica Albo lineata	2¼	4.00	35.00
" Magnifica	2	4.00	35 00
Internata	2	4.00	35.00
Leptophylla	2	4.00	35.00
Ourardi	2	4.00	35.00
Palmata	2¼	4.00	35.00
Serrulata	2¼	3.00	25.00
Cristata	2¼	3.50	30.00
" Nana Compacta	2¼	4.00	35.00
Sieboldi	2¼	4.00	35.00
Tremula	2¼	4.00	35.00

It will be noted that we do not offer the above by the dozen, but will furnish five or more of any one variety at 100 rate; 250 or over of one variety at 1000 rate.

For other FERNS, PALMS and DECORATIVE STOCK, see our current trade list.

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THE AMERICAN FLORIST COMPANY

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CHICAGO, ILL., U. S. A.

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Bound in flexible leather, postpaid, $3.....

NICKEL PLATE EXCURSION TO BOSTON.

Tickets on sale for trains leaving Chicago September 16th to 18th, incusive, at rate of $19.00 for the round trip, and good returning until September 30th. Also cheap rates to all points East. Vestibuled sleeping cars to Boston, and solid train to New York. Rates lower than via other lines. For further information call on or address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (60)

EXCURSION TO BOSTON.

The Nickel Plate Road will sell excursion tickets from Chicago to Boston and return for trains of September 16, 17 and 18, at rate of $19 00 for the round trip. Tickets will be valid returning until September 30, inclusive. On account of heavy travel at this particular time, those desiring sleeping car accommodations should apply early to J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (58)

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

SEDALIA, Mo.—Philip Pfeiffer, of Pfeiffer Bros., the well known nurserymen, is quite dangerously ill.

DR. HERMAN SCHROEDER started his nursery at Bloomington, Ill., in 1852 and has been in business there ever since.

IT is stated that less than one-half the blackberry crop was gathered this year. Those engaged in the business believe that for three years no blackberry plants should be put out in the west for market purposes.

GEO. W. CAMPBELL, of Delaware, O., who died July 15, in his eighty-second year, is the man who years ago sent out the Delaware grape. President Hayes appointed him United States Commissioner to the Paris exposition of 1878.

JOSEPH M. NEIL, a nurseryman of La Porte, Ind., is the first to take advantage of the new bankruptcy law. He has filed a petition in the United States court asking to be declared a bankrupt. His schedule places his liabilities at $1800 and his assets at $700.

NELSON G. TREFRY, of Toledo, formerly chief gardener at nurseries in the Fresno valley of California, affirms that the blue gum tree of Australia, Eucalyptus globulus, is a natural disinfectant and a sure preventive of yellow fever. It will thrive in any damp situation.

THE American Forestry Association will meet at Omaha September 9 and 10. Among the well-known persons who will present papers are: Hon. J. Sterling Morton, Dr. Geo. L. Miller, Hon. R. W. Furnas, E. F. Stephens, C. A. Keffer, C. L. Watrous, F. S. Phœnix, Henry Michelsen, S. M. Emery, Geo. Van Houten, C. S. Harrison, Prof. Charles E. Bessey, B. E. Fernow, Prof. Lawrence Bruner and George E. Kesser.

The Seventeen Year Locust.

Bulletin No. 14 of the Department of Agriculture treats very fully of the insect commonly known by the above name. It is not a locust but a cicada and its proper name is the periodical cicada. It seems, however, that the popular supposition as to its appearing every seventeen years is founded on fact and that this long period elapses between the laying of the egg and the appearance of the perfect adult, the insect living in the ground during its immature stages. It is only the adult which is seriously injurious and even the damage which it causes is not nearly so great as is commonly supposed. In some locations it may seriously injure young trees and nursery stock, but no material harm is done to florists even where the insects are very numerous and but little harm to large fruit or ornamental trees. A number of remedies are given none of which are entirely to be relied on or can be applied on a large scale. The English sparrow is said to feed on this cicada greedily and has practically exterminated it in many localities, aided by numerous fungi, insects and animals.

Carnation Culture.

Many growers have by this time stopped topping their carnations; others are thinking of so doing in order that they may have early blooms. This, like everything connected with carnation culture, is largely a matter of soil, season and treatment. Growers who have in the past been successful in lifting their carnation plants with buds in all stages of development need not hesitate to do so again, but I have yet to see the first batch of carnations so handled that did not show the effects of their treatment almost the whole season through.

The first crop of flowers from such plants can be called anything but first quality and it will be along toward the holidays before any of the flowers will be really good. In fact, it is against all reason to expect plants to give good results, no matter how carefully they are handled. In the first place, some of the working roots are sure to be broken off in taking them up and planting them, and their mass of top is more than the roots can properly supply with nourishment. The result is that the older leaves around the bottom of the plant will die off. This leaves you either a sorry looking lot of plants or a tremendous amount of work in trimming them up. Most growers prefer doing the trimming to having their plants look bad all through the winter, and yet this trimming is a detriment to the plant unless done very carefully.

It is a far better plan, if you must have early flowers, to leave a portion of the plants without topping and allow them to bloom in the field, and top the others in the proper manner. These flowers in the field will be much better than those from plants in the houses at the same date, and these field-blooming plants will, in an ordinary season, continue to produce flowers until quite late in the fall, at least late enough to give the inside plants a chance.

Carnations for replanting should not be allowed to have any buds that are at all well developed, but should be full of shoots that are ready to throw up blooms; the more of these the better, as there can be a little judicious topping done in the houses if you find they are coming on too fast for the demand.

Some very late blooming varieties will not bear quite so close topping as other sorts, but almost all varieties are better planted in without any buds.

It is time to begin housing as soon as the plants are large enough for it. By large enough is meant plants that have from ten to fifty shoots; the nearer the latter figure the better, of course, but some varieties, like Jubilee, Gold Nugget and others of the same class, will not have more than ten shoots unless the season has been especially favorable.

ALBERT M. HERR.

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HOW TO GROW MUSHROOMS My 24-pp. booklet on M. Cult. free to buyers or intending buyers of spawn; to others, 10 cents. New supplement on out-door culture by JNO. G. GARDNER, included. First importation of the new spawn due at this port Aug. 25. Prices on application.
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We extend to **ALL** a cordial invitation to visit our Nurseries at New Rochelle, N. Y., either on your way to or from the Convention, **and at all times.** We may be able to furnish you just what you want. Our stock of

Palms, Ferns, Pandanus, Ficus,
Dracænas, Araucarias, &c.

has never been as fine as the present, and we believe it would be worth your while to see our stock and compare it with others before purchasing. Drop us a postal card, or telephone, and our carriage will meet you.

NOTICE! We shall not publish a Fall Catalogue or Price List. We would suggest and also advise, that any one in this line of business should **see the STOCK** before purchasing and compare same. Plants cannot be sold by yard or height. Height or size of pot never makes the plant. Catalogues and Price Lists we consider as the best method by which to keep your name before the public, but when stocking up for Fall and Winter trade, the best way is to see the stock, either by a **visit** or **sample.** Our stock is the finest today in America, and to sell by catalogue description would not be doing **JUSTICE** to the same, as it is cool grown, not drawn, and in fine shape, compact and bushy and well colored and will stand well wherever placed. We extend this invitation so you may be able to judge for yourselves.

New York to New Rochelle, 35 Minutes. **TIME TABLE** New Rochelle Depot to Nurseries 10 Minutes.

New York, New Haven & Hartford Railroad Trains leave from 42d Street for New Rochelle, N. Y.—7:00, 8:00, 8:02, 9:02, 10:03, 11:03, 12:06, 1:06, 2:02, 3:06, 4:06, 5:03, 5:35.
Return to New York—8:38, 9:04, 9:45, 10:40, 11:40, 12:45, 2:13, 3:28, 4:25, 5:13, 6:35.
Or, if you prefer to take a sail up Long Island Sound to Glen Island and visit one of the grandest Summer resorts in America. Little Germany and Botanical Collection, our carriage will meet you at the wharf. Boats leave foot of Cortlandt Street, East 32d St., and Brooklyn.
Let us know which way you are coming and at what time.

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Davenport, Ia.

John Stapp, of Rock Island, Ill., has bought the Hitchcock greenhouses here and has moved them to his own establishment on the other side of the Mississippi, where he will use them for growing carnations.

Chas. Dannacher is cutting some very fine Beauties from new stock. F. G. Bahr has finished the work of replanting his rose houses and his place is in very creditable shape. There is no building in Davenport this year.

Mr. Grunewald, gardener at Humboldt Park, Chicago, was here at the recent Sangerfest and enjoyed himself. W. L. Morris, of Des Moines, was another recent visitor who was made welcome.

D.

BANGOR, ME.—J. C. Wright has established a pond lily industry and will grow the blooms for market.

Bargains.

	Per 100	Per 1000
Roman Hyacinths, 12-15.	$2.00	$18.00
" " 13-15.	2.50	21.50
EXTRA selected bulbs Freesia	.50	3.50
(Delivery included in Freesias.)		
CALLA ETHIOPICA, flowering size,		
3-5 inches	4.50	40.00
4-6 inches	6.00	55.00
5-7 inches	8.00	75.00
Mammoth	10 00	90.00

250 bulbs at 1000 rate. 5 per cent discount for cash.

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Pure White, red eye	.90	7.50
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Satisfactory references or cash must accompany all orders from parties with whom we are not acquainted. We hope to be favored with your trial order.

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Varieties.	Size Pot.	Price. Doz.	Hun.
ADIANTUM CUNEATUM	2-inch	$.50	$4.00
" "	3 "	1.00	8.00
" "	4 "	1.50	12.00
" PUBESCENS	2 "	.50	4.00
" "	3 "	1.00	8.00
NEPHROLEPIS EXALTATA	4 "	1.50	12.00
" "	5 "	2.00	16.00
" "	6 "	4.00	30.00
" BOSTONIENSIS	5 "	3.00	25.00
" "	6 "	5.00	40.00
" "	10 "	30.00	
" DAVALLIOIDES FURCANS	8 "	12.00	
LOMARIA GIBBA	3 "	1.00	8.00
PTERIS ADIANTIFOLIA	2 "	.50	4.00
" CRETICA ALBO LINEATA	2 "	.50	4.00
CYRTOMIUM FALCATUM	3 "	1.00	8.00

The above ferns are in fine condition and will give good satisfaction.

PALMS.

Varieties. (Measurements, top of pot to top of tallest leaf.)	Size Pot.	Height Inches.	Character Leaves.	Prices. Each.	Doz.
ARECA LUTESCENS	5-inch	18-20	10-15	.50	
" "	6 "	25-30	15-20	.75	$9.00
COCOS WEDDELIANA	3 "	5-6	4-5	.20	2.00
" " strong	3 "	8-12	5-6	.25	3.00
KENTIA BELMOREANA	5 "	16-18	4-5	.75	7.20
" "	6 "	21-24	5-6	1.25	15.00
" FORSTERIANA	5 "	16-18	3-4	.75	7.20
" "	8 "	40-45	5-6	3.00	36.00
LATANIA BORBONICA	3 "	8-10	1	.15	1.50
" "	4 "	12-15	2-3	.25	3.00
" "	5 "	12-15	3-4	.50	5.00
" "	6 "	15-18	4-6	.75	9.00
" "	7 "	18-20	6-8	1.00	12.00
" "	8 "	30-35	6-10	2.50	30.00
PHŒNIX RECLINATA	4 "	12-15		.25	3.00
" "	5 "	15-18	2-3	.50	5.00
" CANARIENSIS	6 "	18-20	7-10	.75	9.00

MISCELLANEOUS.

ARAUCARIA EXCELSA	6 "	18-22	4-5 tiers	2.00	24.00
" "	7 "	30-36	5-6 "	3.00	36.00
CYPERUS ALTERNIFOLIUS	4 "	nice plants			1.00
PANDANUS UTILIS	3 "	"			1.50
" "	4 "	"			3.00
" "	5 "	"			5.00
" "	6 "	"			9.00
FICUS ELASTICA	4 "	"			3.00
" "	5 "	"			5.00
" "	6 "	"			9.00
" "	9 "	"			24.00
ASPARAGUS PLUMOSUS NANUS	3 "	"			1.00
" " "	4 "	"			1.50
DRACÆNA FRAGRANS	4 "	"			3.00
" "	5 "	"			5.00
ANTHERICUM VARIEGATUM	3 "	"			1.00
SELAGINELLA EMILIANA	3 "	"			.75
" "	4 "	"			1.50
" MARTENSII	3 "	"			.75
" "	4 "	"			1.50

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Price including free delivery anywhere in U. S. A:

¼ to ⅜ inch	$2.50 per 1000
⅜ to ½ "	3.50 per 1000
½ to ¾ "	5 00 per 1000
¾ to 1 "	9 00 per 1000

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Asparagus Sprengerii Seed.... ½ 100, $1.00
Fresh from the vines..... ½ 1000, 8.00

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2000 RUBBER TREES, in perfect health; none better; 5½-in., $50 per 100, 6-in., $65 per 100; 70c each.
100,000 YOUNG LATANIAS, strong, $25 per 1000.
ARALIA SIEBOLDII, 5½-inch $25 per 100.
65,000 PALMS, in variety
25,000 FERNS for dishes, 2½-inch, $2.50 per 100.
SWORD FERNS, 4½-inch, $12.50; 5½-inch, $35; 6-in. $50 per 100.
[World's Fair Medal awarded on Palms]

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Make an offer (cash only) for our surplus.

150 BULBS 1½-inch Diameter.
200 " 1-inch "
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BULBS

For FLORISTS..
For SEEDSMEN.

VAN ZANTEN BROTHERS,
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Helpful Reminders.

If you have occasion to move any young trees, vines or shrubbery and want to make sure that they will go through the winter in good condition, now is the time to dig them up. I refer to localities where weather is warm and rain scarce. This is rather radical advice, but it is given after careful observation and experiences which have been so satisfactory as to warrant it. Such work must be done carefully and a plant that has grown rank, in deep, rich soil, continually moist, had better not be moved now, but one which has grown in ordinary soil and has depended on our rains for moisture produces closer and more stunted growth and is deficient in its supply of nutriment. Just at this stage it makes but little difference whether this deficiency is caused by lack of moisture to dissolve and supply food or by a lack of roots to carry on the process, so provided you can give the plants the proper care, the disturbing of the roots is not necessarily detrimental. First prepare the places; dig out large holes and provide good loam for filling; mix in some old manure; take up your plant; fork around and loosen the roots without cutting or breaking them more than is necessary; when you get within eighteen inches of the stem you can frequently lift the roots out in a ball by sliding it onto a board. Gather up all the roots and don't allow them to become either dry or wet enough to be muddy. When you have moved it to its new position, before planting, soak the ball of roots thoroughly and put in a quantity of water so that the ground will be wet, deep and wide. Then set the plant, lay out the loose roots in a natural position and fill in with soil well pulverized so as to work in between the roots. Have both roots and stem the same depth from the surface as originally grown; do not wet the surface, but cover it with hay fastened so that the wind will not blow it away; if the ball taken was not sufficient to hold the plant firm, put in a stake; maintain a moisture below, but do not keep the soil so constantly wet as to exclude air. You will find within fourteen days that new growth will be started; the care must not cease, however, as the plant is apt to grow longer into the fall and not ripen quite so early as otherwise.

It is also well to put in cuttings now of honeysuckles, matrimony vines, etc. They strike root readily and can be kept packed tightly in pans in a cold house until spring, when they should be placed in separate pots for sale.

The golden rod is a pretty plant for Easter. Dig up clumps now and put in pots. It will make new roots. Keep in a cold house all winter and bring into warmth when you start hydrangeas.

C. B. W.

Asparagus Sprengerii
SEEDLINGS ALL SOLD.
Fine Plants, $8.00 per 100. Sample by mail 10 cents.
American Rose Co., Washington, D. C.

CANNAS—Rambler Roses
From field for Fall delivery.
Also 30,000 SPIRÆA ANTHONY WATERER.
40,000 LOCAN BERRY TIPS.
The Conard & Jones Co., WEST GROVE, PA.

ROSE PLANTS! OUT OF 2½ INCH POTS
AMERICAN BEAUTIES.....$5.00 per 100. $45.00 per 1000.
METEORS..... 3.00 per 100. 25.00 per 1000.
Wietor Bros., Successors to... ROGERS PARK FLORAL CO.
Wholesale Growers of CUT FLOWERS ROSE PLANTS...
51 WABASH AVENUE, ...CHICAGO...

40,000 FIRST QUALITY FORCING ROSES. READY FOR IMMEDIATE PLANTING.
Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.
AMERICAN BEAUTY — LA FRANCE — PRESIDENT CARNOT
3-inch pots, $8.00 per 100. 4-inch pots, $12.00 per 100.
METEOR — KAISERIN — SUNSET — BON SILENE
PERLE — MME. HOSTE — NIPHETOS — BRIDE
BELLE SIEBRECHT. 3-inch pots, $7.00 per 100. 4-inch pots, $10.00 per 1000.
J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphetos, Kaiserin, 3 and 4-inch.
Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted.
A. S. MacBEAN, Lakewood, N. J.

ROSES
Maids, Brides, Perles and Meteors, in 4-inch pots, $8.00 per 100.
Kaiserin, Perles, Meteors, Maids and Brides, in 3-inch pots, $6.00 per 100.
VIOLETS, Marie Louise, in 2½-in. pot, $3.00 per 100.
BEGONIA REX in 4-in. pots.....$20.00 per 100.
All of the stock is in fine healthy condition.
WM. F. KASTING, - Buffalo, N. Y.

3-INCH ROSES—Fine.
1000 fine Perles, sure to please.
600 Beauties, 3 and 3½-inch. 2000 Brides.
600 Meteors 1000 Maids.
All of this stock is in the very best condition, and will be sold low. Write for prices.
W. H. GULLETT & SONS, Lincoln, Ill.

ROSES! ROSES!
Brides and Meteors from 2-inch, $3.00 per 100; $25.00 per 1000.
Kaiserin and Meteors, from 3-inch, $5.00 per 100; $45.00 per 1000.
Am. Beauties from 3-in., $5.50 per 100; $50 per 1000. 50 at 100 and 500 at 1000 rates. Cash with order.
ROBERT F. TESSON,
West Forest Park, - St. Louis, Mo.

FORCING ROSES

	2½-in. Per 100	2½-in. Per 1000	3½-in. Per 100
BRIDE	$2 50	$22.50	$
BRIDESMAID	2 50	22 50	
METEOR	2.50	22 50	4.00

White, Pink and Yellow Ramblers, same. Moonvines $20.00; Alternantheras $18.00 per 1000.
THE NATIONAL PLANT CO., Dayton, Ohio.

AMERICAN BEAUTY
Fine young plants, healthy and strong. 3-inch pots, $10.00 per 100; $90.00 per 1000.
EDWIN LONSDALE,
Wyndmoor, Chestnut Hill,
Cash with order. PHILADELPHIA, PA.
Money Order Office, Station H, Phila.

ROSE PLANTS Per 100
5000 AMERICAN BEAUTIES, 3-inch, $4.00
150 PERLE..... 3-inch, 4.00
700 BRIDESMAIDS..... 3-inch, 3.00
1400 METEORS..... 2½-in., 2.00
Fine, healthy stock; good size.
FIRST COME, FIRST SERVED.
A. G. PRINCE & CO.,
88 and 90 Wabash Ave.. CHICAGO.

IT IS GOOD BUSINESS POLICY TO MENTION THE AMERICAN FLORIST WHEN YOU WRITE TO AN ADVERTISER.

FORCING ROSES....
FIRST-CLASS, CLEAN, HEALTHY STOCK.

We claim GOOD VALUE at these prices. Send for samples.

	2½-in. per 100	3½-in. per 100
American Beauty	$6.00	$12.00
Papa Gontier	4.00	10.00
Pres. Carnot	4.00	10.00
La France	4.00	10.00
Mlle. Helena Cambier	4.00	10.00
Kaiserin A. Victoria		9.00
Perle des Jardins	3.50	9.00
Brides	3.00	8.00
Bridesmaids	3.00	8.00
Meteors	3.00	8.00
Clothilde Soupert	3.00	8.00
Mosella	3.00	8.00

Asparagus Sprengeri, 2-in. pots, strong....per 100, $5 00
Asparagus Plumosus, 2½-in. pots, fine stock " 7.00
Boston Fern 2½-in. " 6 00
Nephrolepis Exaltata, 4-in. " 15.00
Ferns in assortment, 2½-in. " 4.00
Araucaria Excelsa, 6-in. pots, 15-18-in. high @ $1 50 each
Cocos Weddelliana, 3-in pots @ $2 50 per doz.
Kentias, Arecas, Latanias, etc., large quantities in all sizes. Write for Special Prices, on sizes you want.

VAUGHAN'S SEED STORE,
Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

ROSES Brides Bridesmaid ...Perles
3-inch Pots, $4.00 per 100.
200 Grafted Bridesmaid
4-inch Pots, $10.00 per 100.
S. J. REUTER,
WESTERLY, R. I.

ROSES
100 AM BEAUTY, 3½-in.....$5.00 per 100
BRIDESMAIDS, 3½-in..... 3.50 per 100
METEORS, 3½-in..... 3.50 per 100
Very choice; grown for our own use. May be returned at our expense if not satisfactory.
BRANT & NOE—Gentlemen: DALLAS, TEXAS.
We are greatly pleased with rose plants received.
Yours, etc. TEXAS SEED & FLORAL CO.
BRANT & NOE, - Forest Glen, Ill.

CLEMATIS!

(Rooted Cuttings)

BY MAIL PREPAID

	Per 100	Per 1000
Jackmanii (purple), Mme. Edouard Andre (red), Duchess of Edinburgh (double white)	$4.00	
Henryi (white), Lawsoniana (lavender), Ramona (blue) and many other sorts in a great variety of shades,	3 50	$30 00
Assortment, including 20 per cent. Jackmanii	3 50	30.00

We also have all the above sorts in **2-Year Plants;** price $2.50 per doz.; $20.00 per 100; $175.00 per 1000.

W. S. Little & Co.

Commercial Nurseries. - Rochester, N. Y.

FIELD-GROWN

Carnation Plants

STOCK READY SEPT. 1st.

A good season has put our field-grown stock for Fall planting in excellent condition; clean, healthy and strong. The condition of our ground is such to insure the lifting of a plant with little or no loss of roots. Send for Price List.

F. Dorner & Sons Co.

LA FAYETTE, IND.

CARNATIONS FIELD-GROWN

Ready September 1st and later.

2000 Lizzie McGowan	500 Silver Spray
500 Ivory	1000 Wm. Scott
500 Morello	300 Emily Pierson
500 Daybreak	200 Goldfinch

If you want any field-grown plants this fall write me before you buy and get prices on this lot. Address

Chas. Chadwick, Lock Box 11, Grand Rapids, Mich.

Geranium "MARS"

STOCK PLANTS, FIELD GROWN, READY NOW....

$1.50, $2.25, $3.00 per doz.; $15.00 per 100. Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

CHINESE PRIMROSE

... SEED ...

Greatly improved and well known to be of the very finest grown. Packets put up specially for florists, of best single and double varieties, 400 seeds $1 00; ½ pkt., 50c. Not compared with cheap imported seed.

CINERARIA seed of large-flowering dwarf varieties in choicest mixture pkt., 25c : 6 pkts., $1 00.

PRIMULA OBCONICA, pkt., 1000 seeds, 35c.

PRIMULA FLORIBUNDA, fine yellow, pkt., 25c.

JOHN F. RUPP, - Shiremanstown, Pa.

SPECIALTIES IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N.Y.

CARNATIONS, McGowan, etc. GERANIUMS, Nutt and Favorite. VINCA Major Variegata. All strong field-grown plants in perfect health. 75c per dozen, $5 per 100. CANNAS, varieties and prices on application.

INSALL & LEADBETTER, Moorestown, N. J.

FIELD... GROWN CARNATIONS.

READY SEPTEMBER 1st.

FINE, HEAVY PLANTS.

	Per 100.		Per 100.
New York—deep cerise pink	$10.00	**Argyle**—deep cerise	12.00
White Cloud—white	12.00	**Empress**—crimson	12.00
Bon Ton—scarlet	10.00	**C. A. Dana**—silvery pink	8.00
Mrs. Jas Dean—silvery pink	12.00	**Mayor Pingree**—yellow	8.00
Gold Nugget—yellow	12.00	**Victor**—deep pink	8.00
John Young—snow white	10.00	**Flora Hill**—white	8.00
Mrs. F. Joost—pink	10.00	**Wm. Scott**—pink	6.00

KENTIA BELMOREANA—6-in. pots, 24 to 28 inches high, 6 to 7 leaves, $15.00 to $24.00 per dozen; 5-in., 20 to 24 inches high, 5 to 6 leaves, $12.00 per dozen.

KENTIA FORSTERIANA—6-in. pots, 24 to 30 inches high, 5 to 6 leaves, $12.00 to $18.00 per dozen; 5-in. pots, 20 to 24 inches high, 4 to 5 leaves, $9.00 to $12.00 per dozen.

Boston Fern, 2½ inch	$ 5.00 per 100	Asparagus Sprengerii, 2-inch	$ 5.00 per 100
Neph. Cordata Compacta, 2½-inch	6.00 per 100	" " strong, 2½-inch	8.00 per 100
" " 3 "	10.00 per 100	" " " 3 "	10.00 per 100
Aspidium Tensemensii, 2-inch	4.00 per 100	" Plumosus Nanus, 3 "	7.00 per 100
" " 3 "	8.00 per 100	" " " 4 "	15.00 per 100
Peperomia Argyreia, 2-inch	5.00 per 100	Abutilon Sarilzii, 3-inch	10.00 per 100

THE COTTAGE GARDENS, Queens, N. Y.

EXTRA FINE CARNATION PLANTS

The best we have ever produced. Why? Because we are learning how to use the natural advantages we possess.

COOL LAKE BREEZES

make vigorous, stocky plants which will give you a good crop of **FLOWERS FOR THE HOLIDAYS.**

Our light soil develops a quantity of fibrous roots. Do not forget this, for the plant with many roots stands shipment well and grows rapidly. Send for prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS

Strong, field-grown plants, and FREE from rust.

250 Armazindy, 3000 McGowan, 3000 Alaska, 1200 Wm. Scott, 200 Helen Keller	$4.00 per 100.
75 Hector, 100 McBurney, 400 Pingree	$5.00 per 100.
500 Jubilee	$8.00 per 100.

SOUTH PARK FLORAL CO.,

NEW CASTLE, IND.

CARNATIONS

PINGREE
ARMAZINDY
AND TRIUMPH

Field-grown. Ready now. Write for prices.

GEO. A. KUHL, Pekin, Ill.

Carnations

Strong, Healthy, Field Grown Stock...

	Per 100
1500 Daybreak, light pink	$4.00
1200 Jubilee, best red	8.00
700 Lizzie McGowan, white	4.00
700 Silver Spray	4.00
300 Mayor Pingree, variegated yellow	6.00
300 Morello, scarlet	4.00
500 Portia, red	4.00
350 Ivory, white	4.00
300 Tidal Wave, dark pink	6.00
200 Wm. Scott, pink	4.00
125 Della Fox, pearl pink	4.00

VIOLETS Strong, field-grown @ $4.00 per 100.

2500 Marie Louise, double blue.
500 Swanley White.
300 California.

Samples mailed on receipt of stamps to cover mailing.

L. L. MAY & CO., ST. PAUL, MINN.

Successful Growers

Know that they can dispose of all their Surplus Stock by advertising in the American Florist. TRY IT NOW.

About Early Firing.

Recently a writer plaintively describes his losses of roses and the damage to his plants by reason of mildew. He states that he uses the utmost care and doctors the plants "as soon as the mildew appears" but, although he has been advised to fire early, he can not do so on account of the expense. It takes a lot of coal to heat up the water, he says.

Every wholesale dealer can vouch for the fact that regularly, spring and fall, every year, cart loads of otherwise good and salable roses are dumped or sold for a song simply because they are so disfigured by mildew that no one will have them. There is no excuse for mildewed roses during the regular season and the appearance of mildew in a rose house is a sure sign of carelessness, incompetence or shortsighted penuriousness.

Doctor the plants as soon as the mildew shows, forsooth. Put a Yale lock on the barn after the thief has your best nag well into the next state. Doctor the plants before the mildew comes. Keep doctoring them from the day they are planted until they are thrown out. Keep the sulphur going all the time, a light dusting frequently when there is no fire and the pipes constantly painted during the firing season. Let us look for a minute at the "can't afford it" plan of putting off the firing. If a man has five rose houses, on this same principle, he can save much coal by not firing one of the houses at all and can save more by letting two houses freeze up. This can't afford it idea carried out to its logical conclusion would be analagous to the advertised coal consumption of brother Carmody's boilers—it can all be saved.

The better price to be had, often the getting of a price instead of having the cut dumped, will more than pay for the extra coal used in early firing, while the increased vigor and productiveness at the beginning of the dull and cloudy season in early winter, when every good bud is worth money, can hardly be overestimated.

The proper and profitable way to look at the matter is to ask the question, not "How late can I put off firing?" but "How early can I begin?" As early as possible in the fall put on a little heat at night, leaving the ventilators more or less open through the night, as may be needed, and sulphur the pipes. Every dollar so spent for coal will almost surely bring a larger profit than any other expenditure of the year. What is true of early firing in the fall is almost equally true of late firing in spring. X.

2000 Smilax

First-class 3-inch stock, **$2.50 per 100; $20 per 1000.**

THE E. HIPPARD CO.,
.....YOUNGSTOWN, OHIO.

CHOICE VIOLET STOCK!

Violets from 2½-in. pots, A-1 condition. Farquhar, Marie Louise and Lady Campbell, $3.00 per 100; $25.00 per 1000.

ROSES Brides and Maids, in 3-in. pots.....$4.00 per 100.

CRABB & HUNTER, Grand Rapids, Mich.

Good Smilax to make room. 12½ cents per full string. Express prepaid..... Orders filled on short notice. Cash with order, please.

HENRY C. SCHWIEMANN, Danvers, Ill.

CHINESE PRIMROSE PLANTS.

STRONG and well grown, ready for 3-inch pots. Acknowledged by Florists throughout the U. S. and Canada as the finest strain of large flowering Primroses to be had. Not grown from cheap imported seed, but from seed of our own growing, which has won a national reputation for superiority. Single varieties, in finest named colors, $2.50 per 100: $20 per 1000. Double white and red, $4.00 per 100.

Cash with order, or one-half cash and balance C. O. D.

Adams and U. S. Express. Extras added to help pay the expressage..... Please mention this paper.

JOHN F. RUPP, SHIREMANSTOWN, PA.
THE HOME OF PRIMROSES.

CHINESE PRIMROSES!

15,000 Strong 2-inch Pots, $2.00 per 100.

CINERARIA, 2-inch pots, $2.00 per 100.

PANSY SEED ½-oz., $2. Oz., $3.50.

PLANTS, $3.50 per 1000, Sept. 1st.
CASH WITH ORDER.

JOS. H. CUNNINGHAM,
DELAWARE, O.

REX BEGONIA

	Per 100
34 Named Varieties, 2-inch pots.....	$8.00
34 " " Rooted Cuttings,	4.00
Mixed " " "	2.00
" " 2-inch pots.....	4.00

Write for prices on other stock. Terms Cash or C. O. D.

GREENE & UNDERHILL
WATERTOWN, N. Y.

CHOICE VIOLET PLANTS
Marie Louise.

Large field grown, healthy stock, $5.00 per 100; $40.00 per 1000.

J. W. DAVIS, Morrison, Ill.

SPECIAL TO SEPTEMBER.

Our **SMILAX** must be planted out or potted up right away. All orders received before Sept. 1st will be filled at the nominal price of 75c per 100; $5.00 per 1000. **Cash with order.** Bear in mind these are extra strong plants out of 2-in. pots which makes a great saving in freight compared to 2½ in. pots and are every way as good. Order at once and save money... South Side Floral Co., Springfield, Ill

SMILAX!

Fine stock, ready to run soon as planted, winter sown and several times headed back, 2½-inch pots. $2.50 per 100.
Bougainvillea G Sanderiana, 3-in. pots, $1.50 per doz.; $10.00 per 100.
ROSES, Bride and Bridesmaid, 3½-in. pots, $5 per 100
Cyperus Alternifolius, 2½-in. pots.....$2.50 per 100
Grevillea Robusta, 2¼-in. pots..... 2.50 per 100
NATHAN SMITH & SON, Adrian, Mich.

ZIRNGIEBEL'S GIANT PANSIES.

THE MARKET AND FANCY STRAINS are known by all the florists as the Standard Varieties up-to-date.
FRESH SEED NOW READY in trade packages at ONE DOLLAR each.
DENYS ZIRNGIEBEL, Needham, Mass.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

Roses and Chrysanthemums GOOD STOCK

BRIDES, MAIDS, METEORS,
3-in., $4 per 100; $35 per 1000; 4-in., $5.50 per 100.
BEAUTIES,
3-in., $5 per 100; $45 per 1000; 4-in., $6.50 per 100.
2½-in. stock of Glory de Pacific, Maud Adams, Lady Fitzwigram, Bergmann, Bonnaffon, Robinson, Modesto, Perrin, Viviand-Morel, Maud Dean, Maud Adams, Emil and Gretchen Buettner, Yellow, White and Pink Jones, D. Spaulding, Lottie Berry, Henderson, Crawford, Snowball, Defender, Mayflower, Thanksgiving, Withers, Murdock, Golden Trophy, M. M. Johnson, Sunderbruch, Merry Monarch, Marquis de Montmort, price $3.00 per 100.

Poehlmann Bros., Morton Grove, Cook Co., Ill.

KLONDIKE COLEUS

	Per 100
Rooted cuttings ready.....	$1.50
Asparagus plumosus, 2½-inch.....	5.00
" Sprengerii, 2½-inch.....	6.00
Cyperus (Umbrella Plant), 2½-inch.....	2.50
" " " 3-inch.....	3.00
" " " 6-inch, $2 per doz.	
Ferns, assorted, 5 and 6-inch.....$2.50 "	
Adiantum cuneatum, fine, 5-6 in. $2, $2.50 "	
Rubbers.....6-inch.....$5.00 "	
Nephrolepis (Boston Fern), 9-in.. $1.00 each.	
Grevillea robusta, 2¼-inch, strong.....	5.00
Geranium S. A. Nutt, 2½-inch.....	2.00
" Mme. Bruant, 2½-inch.....	3.00
" 50 other varieties, new and old, $2 to 6.00	

Stock A No. 1. Cash please.

CARL HAGENBURGER, West Mentor, Ohio.
Mention the American Florist.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.
In Trade Packets at $1.00 each.
M. B. FAXON,
Lock Box 1528. BOSTON, MASS.
Correspondence solicited.

PANSY SEED Large Flowering.

Do you want to grow the finest Pansies, if so, buy the JENNINGS STRAIN.
Always reliable. None better. Very finest mixed, $1.00 per pkt. of 2500 seeds; $6.00 per ounce. White, yellow, black, blue, red, pink and lavender in separate colors, $1.00 per pkt. The above all grown from very finest stock. Cash with order.

E. B. JENNINGS, L. B. 254, Southport, Conn.
Grower of the Finest Pansies.

SEED! **PANSIES** SEED!

Roemer's Superb Prize Pansies, improved strain, new crop, ready now. This new mixture is saved from the very finest selected plants from all leading novelties of art colors, without doubt the finest strain in the market to-day. Mixed, per pkt. of 3000 seeds, $1.00; ¼ oz., $1.50; ½ oz., $2.75; 1 oz., $5.00. White, yellow, black and blue, in separate colors, $1.00 per pkt. of 3000 seeds.
CASH WITH ORDER.

PETER BROWN, - Lancaster, Pa.
Grower of Extra Fine Pansies.
Plants ready Sept. 15th.



NEW CROP PANSY!

Vaughan's "International"

Received the only reward for Mixed Pansies at the World's Fair. It is today better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. **Price, per oz., $10; 1-2 oz., $5; 1-8 oz., $1.50; trade pkt., 50 cts. (less 10 per cent for cash.)**

Vaughan's "Giant Mixture"

This mixture is specially made up by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had in any other way. If your trade demands large flowers there is no better mixture. **Price, per oz., $4.00; 1-4 oz., $1.25, 1-8 oz., 70 cts., large trade pkt., 50 cts.**

GIANT TRIMARDEAU, Mixed, oz., $1.00; ¼-oz., 30c; pkt., 10c.
"CHICAGO PARKS BEDDING" MIXTURE, oz., $1.00; ¼ oz., 30c; pkt., 10c.
SEPARATE COLORS—For price of these see Special Pansy Seed Circular, sent on application.



NEW SEED OF

Cyclamen Persicum Giganteum

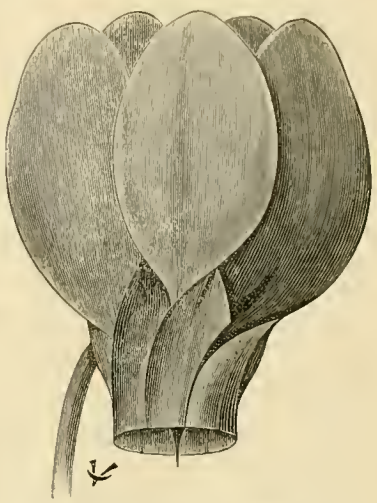
IN THE FOLLOWING SEPARATE COLORS:

Pure White, Bright Crimson, White with Crimson Eye, and Rose, (Von Marienthal.)

This Cyclamen seed has been grown especially for us by a most conscientious florist and we know that it will give entire satisfaction. Please favor us with your order for seed of this salable plant, at the very low price of . . .

$5.00 per 1000 seeds; 100 seeds, 75 cents.

Our Exclusive List of Seeds of Perennials Sent On Application.



Vaughan's Seed Store

14 BARCLAY STREET — NEW YORK
84-86 RANDOLPH ST. — CHICAGO

New Pansy Seed.

	Trade pkt.	1 oz.
Mitting's giant flowering	50c	$4.00
English, finest mixed	25c	2.00
French, " "	25c	2.00
Bugnot, " "	50c	4.00
Boucharlat	35c	3.00
Odier	35c	3.00
Cassiers	35c	3.00
Trimardeau, mixed	35c	3.00
" Parisian, large strained	35c	4.00
Lord Beaconsfield	25c	2.00
Striata Grandiflora	30c	2.50
Candidissima	30c	2.50
Faust	25c	2.50
German, large mixed. ¼ oz. at 1 oz. rates.	30c	2.50

PANSY PLANTS.—Mitting's giant flowering in bud and bloom, 50 cents per 100; $5.00 per 1000.

CARNATION PLANTS.

Flora Hill, Mayor Pingree and C. A. Dana at $6.00 per 100; fine stock. Triumph and Armazindy at $5.00 per 100.

FLOWERING BEGONIAS in 10 varieties, 2¼-inch, $2.00.

THE MORRIS FLORAL CO.
Morris, Ill.

X PANSY X SEED

The finest of all the Giant flowering varieties to be had. No better grown; carefully selected; very large flowers, of perfect form and choice colors. All my florist customers praise this strain very highly; requires no better evidence of superiority. Every florist should be sure to sow of it this season. Per trade pkt. of 3500 seeds, $1.00; half pkt., 50c. A pkt. New Forget-Me-Not, "Jewel," with every order.

JOHN F. RUPP, Shiremanstown, Pa.

Herr's Pansies!

BUY THE BEST. Seed at $1.50 per ¼ oz. Plants, 75c per 100; $4 per 1000.

SMILAX Fine plants from pots at 75c per 100; $5.00 per 1000. . . . Sample plants for 10c.

ALBERT M. HERR, = Lancaster, Pa.

John! THE PANSY MAN

THAT'S WHAT THEY CALL ME.

Fresh seed now ready. J. B.'s Challenge is all that the word implies. TRY IT! Good percentage of light colors. Large trade pkt., $1.00 cash.

JOHN BEIMFORD, WILTON JUNCTION, IOWA.
Mention American Florist.

Pansies Worth Raising.

NEW SEED.

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PANSY SEED. STRICTLY FRESH.

French and German crops, oz $7.50; ½ oz. $3.75; ¼ oz. $2.00; pkt. $1.00

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1000 Seeds, finest mixed, 25c.
1 oz. " " " $3.75

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Shrubbery Notes.

We are not quite within the Arctic circle at Burlington, Vt., and we often think that this is one of the prettiest towns in the United States, but we all miss many of the pretty shrubs and trees which are hardy and thrifty in warmer climates. When we go as far south as New York, even, in the spring we see Forsythias and Lonicera fragrantissima, which, though they grow here under protest, have a strange look to us when we see strong, thrifty flowering specimens in Central Park or in Prospect Park or at Morningside Heights. And a little later the magnolias, rhododendrons and paulownias look still stranger to our eyes.

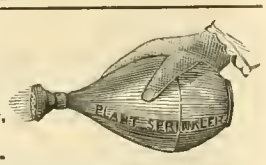
Hardiness against cold weather is an important quality in shrubs for our gardens, and we have a good opportunity to judge which species are thoroughly reliable. Among the spiræas the Van Houttei and S. aurea are by far the best. S. prunifolia and S. Thunbergii are planted in all good borders, for they are almost indispensable in spite of the fact that they both usually kill back severely here. The deutzias are commonly reliable here. This spring they were especially fine, both D. gracilis and D. scabra carrying the finest and heaviest loads of blossoms I ever saw. Lonicera Tartarica is hardy and is frequently planted. The large snowball, Viburnum Opulus, is frequently planted, and though it does not kill back much, it seems always to be unhealthy and much subject to attacks of aphides.

Probably the greatest favorite among all hardy shrubs in this place is Hydrangea paniculata grandiflora, of which one sees hundreds of plants in all sorts of situations, good, bad and indifferent. This beautiful plant is very frequently set singly on the open lawn, a position in which it almost never looks well. Single plants must be large and widely branched, full clear to the ground, to look well; but instead of that, it is the unfortunate practice to trim them up like standard currant or gooseberry bushes, leaving them naked and graceless. They are best when thickly planted in borders and when massed up in front with some small plant like Spiræa Thunbergii. Rosa rugosa seems to do well here, but has been planted only a little. The native dogwoods, of course, are hardy and fine, though not often enough used. Very few of the privets do well here, and I think there is not a good privet hedge in this vicinity.

F. A. WAUGH.

SAN FRANCISCO, CAL.—Chas. Pettijohn at midnight climbed a tree in front of his greenhouses and fired a pistol and rang a big gong. He was adjudged insane next day and was sent to Agnews Asylum. He is 61 years of age.

Scollay
Sprinkler....
INDISPENSABLE
J. A. Scollay, Maker,
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KRAFT'S PLANT TONIC

THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25 cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.

THIS INSECTICIDE IS NON-POISONOUS.

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Kill AND SAVE the BLOOMS Bugs!
QUICKLY DOES IT.

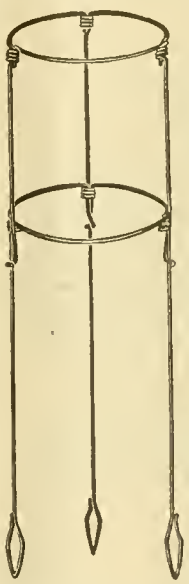
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MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97.
MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem. Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
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W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes
AT LOWEST PRICES.
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Universal Insecticide
For Flowers, Trees and Animals.
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SLUG SHOT KILLS SOW BUGS

Preserves vegetation from destruction by insects, preserves foliage and is always safe. In use since 1880. Is sold *by dealers in seeds*. For pamphlet on Bugs and Blight, address

B. HAMMOND, Fishkill-on-Hudson, N. Y.

Carnations and Geraniums.

ED. AM. FLORIST:—On account of the continued dry weather my carnation plants in the field are very small. I generally bench them the first September. Would you advise me to let them stay outside two weeks longer, this season, as we may have rain by then which would improve their growth, or do you think they will grow more if I house them at the usual time? I have several double Gen. Grant geraniums which although healthy looking have not yet bloomed this season. Is it advisable to propagate from them? SUBSCRIBER.

Experience has taught us that to get the best results all carnation plants should be inside by September 1, or as soon after as possible. I therefore would not advise "Subscriber" to keep them out after that date as they are under control when inside and, if properly attended, will very soon go ahead. In fact, it is not the largest plant at this season of the year that will give the best results. For our own use we much prefer medium sized ones, that is, if they are not stunted with any disease. In regard to the General Grant geraniums not blooming, I cannot account for that, as it is generally one of the most free bloomers. I certainly should advise not propagating from such stock if it can be avoided.

C. W. JOHNSON.

Worcester, Mass.

The weather has continued very warm and humid and although very disagreeable to man and beast, it is great growing weather and everything outside and in is doing finely.

The condition of trade remains unchanged and we are receiving plenty of good flowers; carnations are practically out of the market, but asters make a good substitute.

H. F. A Lange has nearly completed the first house of this years' addition, which when completed will consist of six houses containing about 7,000 square feet of glass. A. H. L.

DAVENPORT, IA.—John T. Temple has been elected Grand Patriarch of the I. O. O. F. of Iowa. He will be installed at the conclave at Council Bluffs in October.

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An... Unsolicited Opinion

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we furnish, free of cost, complete detail drawings from which any intelligent workman can put up the material correctly. We have plenty of time to write letters ABOUT OUR BUSINESS, and we will be glad to hear from those contemplating building.

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ED. AM. FLORIST:—Please state the number of 2-inch pipes required for a small greenhouse 14x24 feet, 9 feet to ridge and 4½ feet sides, to maintain a temperature of 55° or 60° in cold weather, the house running north and south with north side sheltered. Would one two-inch flow overhead at the north end be sufficient, dropping into six rows continued all around the outside, with valve to regulate the use of the pipes according to the outside temperature? L.

If the mercury does not drop much below zero and there is no glass in the side walls of the house the temperature desired can be maintained with 150 square feet of radiation which will require about 240 linear feet of 2-inch pipes. If the pipe is to run around two sides and one end of the house, about four runs will be sufficient, if the boiler is of ample capacity. While a two-inch main would answer, better results can be secured if a larger size is put in.

L. R. TAFT.

Toronto, Ont.

The Toronto Gardeners' and Florists' Club is to give a chrysanthemum show in November and has distributed several hundred plants among school children as a means of arousing public interest in the affair. During August the society has been holding weekly meetings in various places, to which the children and their parents were invited to listen to talks on chrysanthemum culture by various members of the organization. There are to be several prizes for the young people who exhibit the best blooms.

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STANDARD POTS A SPECIALTY
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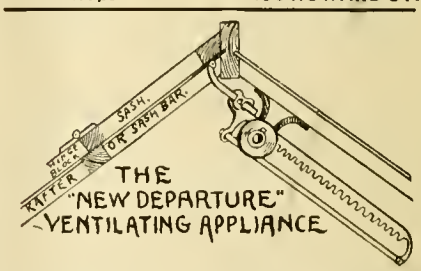
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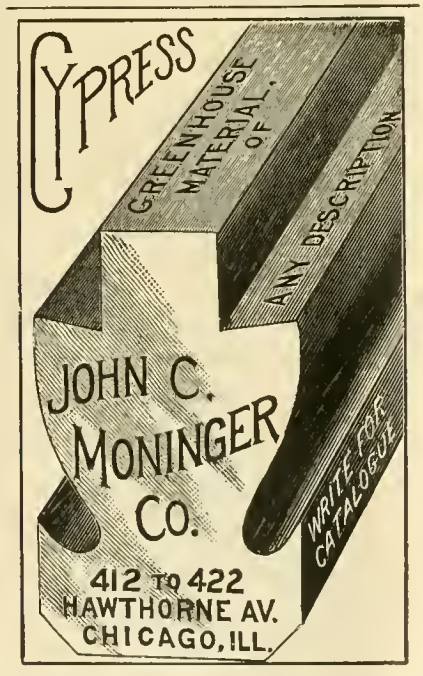
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Liquid Putty, 25-lb. can $1.50, ready to use.
Scollay Putty Bulb for applying Mastica or Liquid Putty, 85c.
Van Ryper's Glazing Points, per 1000 60c, by mail 75c.
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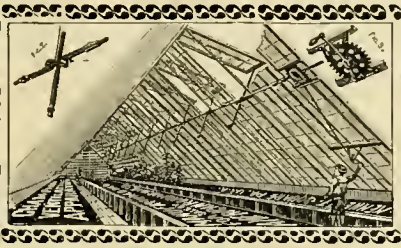
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Glass Hot Bed, Greenhouse and Ventilator Sash

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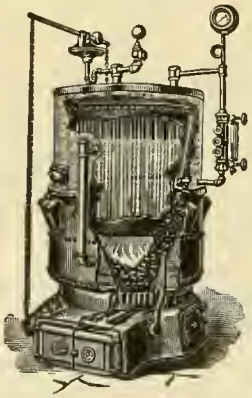
THIS IS THE SEASON FOR SUMMER VACATIONS.—TRADE IS DULL.—NEFF STARTS HIS FOURTH STORE IN THE PLACE FORMERLY OCCUPIED BY BELLA BECKER.—HARVEY SHEAFF WILL HAVE CHARGE.

There is practically no change to report in the trade situation this week—everything very quiet.

Sam'l McClements, of Randolph & McClements, is sojourning at Atlantic City with his family. T. P. Langhans and family are at Somerset, Pa., for a short time. W. G. Duff, of Highland avenue, E. E., is also on a summer vacation.

Lincoln I. Neff has secured the unexpired lease on the store room recently occupied by Mrs. Bella F. Becker, at 6105 Penn avenue, E. E. He also bought the stock and fixtures, is now remodeling the interior, will rearrange the greenhouse in the rear of the store room and re-stock it completely. Harvey C. Sheaff, who has been with him at his Sixth street establishment, and formerly with the Murdocks and James Dell, will be manager of the new place. The location is a very central one and, in the hands of the present proprietor, this venture will certainly score a success. Mr. Neff has now four stores, one at Braddock, Pa., Oliver Best, manager; one at 4010 Butler street, Mrs. Neff in charge; one at 210 Sixth street, which he conducts himself, and the new one mentioned above. REGIA.

—THE—
GORTON SIDE FEED Boiler

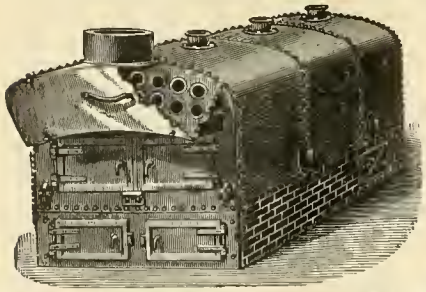


is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

Further information on application.

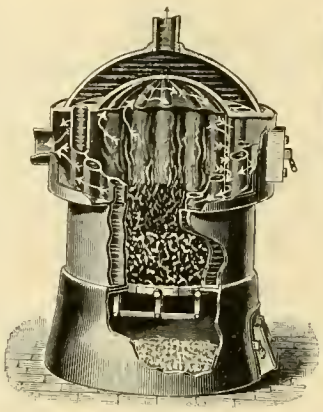
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Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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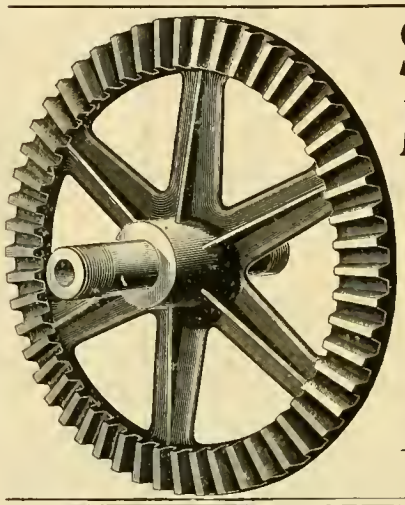
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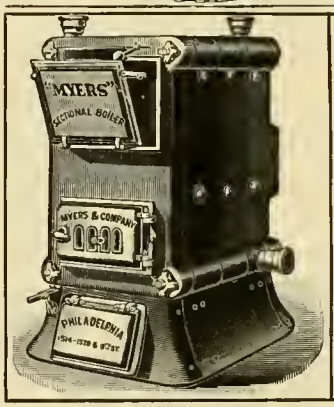
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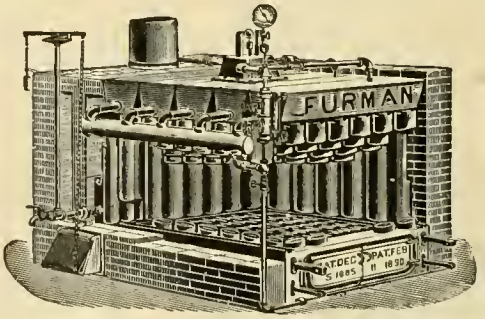


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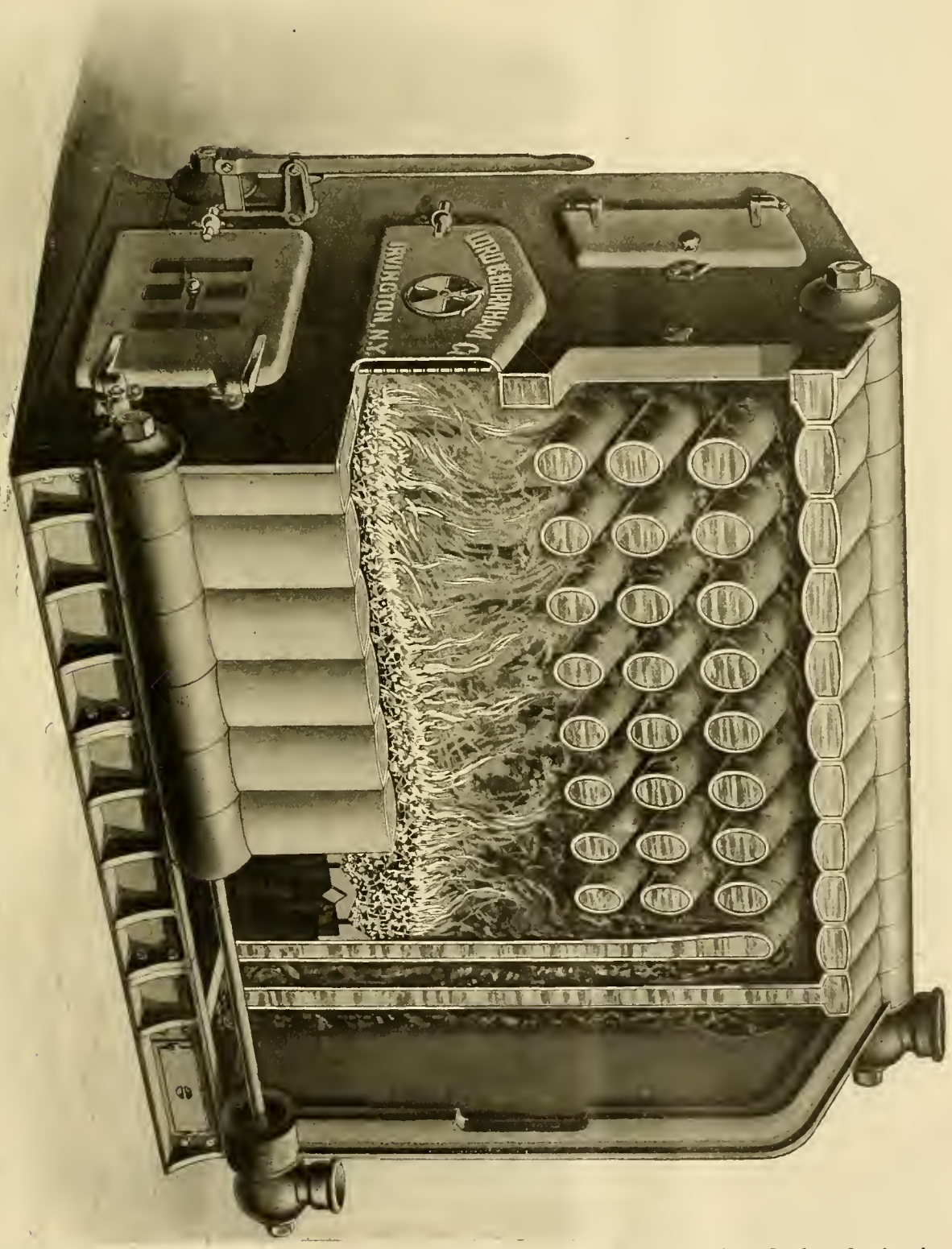
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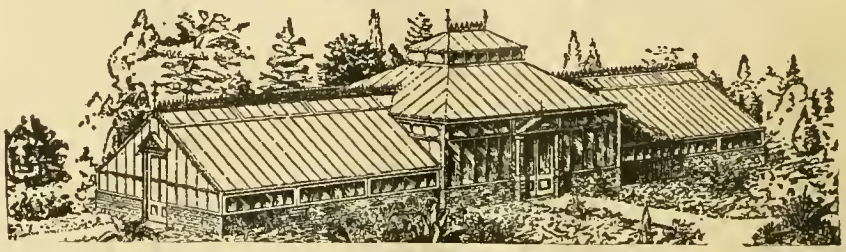
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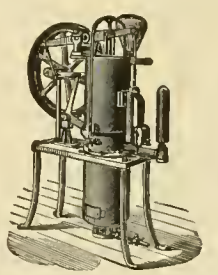
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Vol. XIV. CHICAGO AND NEW YORK, AUGUST 27, 1898. No. 534.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fourteenth annual meeting will be held at Omaha, Neb., August 16-19, 1898.

OFFICERS-ELECT [to be installed Jan. 1, 1899]. W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898. ELMER D. SMITH, Adrian, Mich., secretary.

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THE OMAHA CONVENTION

Discussions and Reports.

The subject of trade exhibitions was one of the most interesting presented at the convention and the discussion which followed Mr. Cushman's paper developed a concurrence of opinion as to the desirability of trade displays in general and particularly around florists' establishments. It was thought that, while the annual trade exhibitions do not pay in the sense of realizing immediate pecuniary profit, they are of very great ultimate benefit in keeping the people who live at a distance from an exhibitor informed of what he is accomplishing in trade improvements.

Messrs. Hammond, Wintzer and Siebrecht spoke of the educational value of exhibitions in stimulating a taste for floriculture. The beautiful floral work displayed in the grounds surrounding the the railroad stations, particularly at Ypsilanti and Niles, Mich., were cited. D. B. Long suggested the holding of consultations between prominent exhibitors and the Executive Committee at annual meetings for the development of new ideas for exhibitions.

An animated discussion of Robert Craig's paper on grafted roses was continued at some length by E. G. Hill, Antoine Wintzer, H. A. Siebrecht, E. M. Wood, Robert George, Wm. Scott, Robt. F. Tesson, W. W. Coles and C. C. Sanders. All of the speakers seemed to concur in the opinion that Bride, Bridesmaid and Kaiserin roses grafted on Manetti, under certain circumstances, showed marked improvement over those on their own roots. Mr. Coles, in speaking of the rapidity with which roses may be propagated by grafting, cited an instance where he propagated in one season 1100 plants from a single plant of Mrs. John Laing. J. L. Dillon of Bloomsburg, Pa., related his experience and said that he had 2,500 plants grafted on Manetti which were planted on solid beds in June. He favors grafting Bride and Bridesmaid, but has found that Perle and Meteor do not do so well.

Mr. Craig, enlarging upon a statement by E. M. Wood, said that that gentleman's roses were grafted on Manetti and were also very skilfully cultivated afterwards, the result being the finest blooms yet raised in this country. A point developed by E. G. Hill was the fact that Manetti should be kept constantly growing, as under some conditions it showed a tendency to become more or less dormant in the fall and winter months. Mr. Wintzer detailed instances in his experience in grafting and also propagating by means of soft wood cuttings. The convention manifested a disposition to consider the subject at greater length at Detroit in 1899.

REPORT OF EXHIBITION JUDGES.

The following report was made by the exhibition judges on class D, greenhouse appliances, etc.:

The J. C. Moninger Co., of Chicago, makes an exhibit of cypress lumber for greenhouse construction. The fine quality of the material is especially commended.

John G. and A. Esler, Saddle River, N. J., make an exhibit of rubber hose that seems to be especially well made, of extra thickness. The rubber and inside lining is particularly noticed.

The Quaker City Machine Co., of Richmond, Ind., exhibit the Challenge Ventilating apparatus. The committee find that its ease of management and great durability are especially noticeable.

The committee finds that Yeats & Bacon, of Champaign, Ill., have on exhibition an alarm attachment designed to give notice to watchmen of a change of temperature.

AFTER DINNER ORATORY.

Following the repast at the home of J. F. Wilcox, at Council Bluffs, remarks appropriate to the occasion were made by Messrs. Wm. Scott, Robt. Craig, J. D. Carmody, H. J. Siebrecht and Adam Graham. Mr. Craig said:

It is not difficult for me to say a word on this occasion because my heart is full of thankfulness and I am glad of the opportunity of expressing that which I know every one feels. I am very glad that I came to Omaha. My only regret at this moment is that we have such a small delegation from the extreme east. This western country has been a revelation to me. The way the very corn grows out here is the way that things are done in the west. Everything is on a large scale and is done with a whole soul and a full heart.

It was my privilege to be somewhat identified with the World's Fair in Chicago, in 1893. I was there when the ground on which the buildings were to be located was a swamp. I helped to lay out the greenhouses there. A year later, upon coming back, I found the great White City—grown up, like a mushroom, almost in a night. I say to you that this could not happen in that way in the east. It was an expression of western force, and often since that time my thoughts have reverted to that wonderful exhibition of western enterprise and western spirit. You could stand there

on the bridge opposite the Administration building and behold from that point the materialized expression of more architectural magnificence than was to be seen anywhere else on earth. And all this was achieved in, you may say, a single year.

The people in the west are a great people. I wish our eastern people could come out here and see and study this marvellous country and get better acquainted with this noble people.

Ladies and gentlemen, my heart is full at this moment and I am unable to utter my thankfulness to those who have set aside all personal concerns in this unselfish way in order to provide for our welfare. These expressions of hospitality are as grateful to our hearts as is the falling dew to the flower of the field. I am glad that I came because I can carry back the story of all your kindness, your consideration and your hospitality.

PRESIDENT GUDE'S SILVER SERVICE.

At the session on Thursday evening President and Mrs. W. F. Gude were presented with a splendid silver set, including tea service, water pitcher, goblets, knives, forks, spoons and other things. The testimonial of esteem was entrusted to J. D. Carmody, the punster from Posey county, for presentation. Mr. Carmody, in his peroration, referred to the presiding officer as a goody-goody fellow and, as he took up each of the several articles, he accompanied them with observations of similar serious character. But the gentleman's oratory must be judged neither by his puns nor his "biler" ads. for, ceasing his jocularity, he closed with felicity unequaled in all the complimentary speech making of the convention.

President Gude responded in a few well chosen words, thanking the donors not so much for the beautiful gift as for the evidence of the fraternal spirit with which it was offered.

THE MATTER OF CREDITS.

When the convention rejected the recommendation of the Executive Committee to establish a Department of Credit Information Cornelius S. Loder offered to receive members of the S. A. F. into membership in the National Florists' Board of Trade, allowing them a reduction of twenty per cent on the usual fee. The proposition was not officially accepted but was ordered incorporated in the annual report.

BY THE WAY.

Scott, like the boys from St. Louis, has a winning way with him.

Courteous Hess the boys called him, and the title fitted all over.

One veteran said it was his first visit to church since he was wed.

The first greenhouse in Nebraska was discovered by Walter Kreitling.

Harry Balsley laments the loss of a new straw hat. He will get even next year.

Robert Craig's eloquence will be long remembered in the city by the Missouri.

That big, double headed Saint Paul train was called a fast freight, but don't forget that no ordinary train could have carried the same number of passengers. The limited express is very good in its own way.

St. Louis is no longer a suburb of Chicago.

Even in defeat John Westcott plays the graceful part he knows so well.

The distance was too much for some of the old-time exhibitors, but the display was creditable withal.

Posey County Carmody retains his office of cavalier and wit.

Kasting anticipated such a warm time that he left his buffaloes at home; he was not much disappointed.

J. F. Wilcox was unanimously voted the biggest man in Council Bluffs or elsewhere.

That front page of the AMERICAN FLORIST convention number pleased the western boys.

The handsome electric-lighted dining car of the St. Paul train was decorated with Meteor roses and ferns by Kreitling, Deamud and others.

John Reardon, Jas. Hartshorne and George Stollery of the Chicago party seemed to get as much real benefit out of the sessions as could be gathered.

J. A. Evans, of the Quaker City Machine Works made a profitable western business tour in connection with the convention trip.

The AMERICAN FLORIST supplement proved an opportune guide to the many Omaha hotels in which our members were more widely scattered than at any previous convention.

Prof. F. W. Taylor entertained some friends at dinner Wednesday evening at the Viaduct restaurant on the exposition grounds. The party included Mr. and Mrs. Elliott, Mrs. DeLaMare, Mrs. Bunde, the Misses Bunde, Miss Lempke and Messrs. Bateman and Vaughan. The guests were afterwards given a view of the illumination from the roof; this was followed by a walk down the Midway with the Professor as guide and a view of the magnificent fireworks completed a most delightful evening.



BEGONIA MARQUISE DE PERLATO.

Rex Begonias.

These begonias are propagated either from stem cuttings or leaves. When the latter are employed, those that are mature should be selected, removing the petiole (leaf stalk) and trimming away a portion of the margin at the base. Insert in sand, giving them an upright position to economize in space, and keep them well shaded until rooted. A cutting bed such as is used for roses will suit these begonias very well. I prefer to propagate early in spring, as the cuttings can then have the benefit of bottom heat with ample time to make nice plants for winter.

As soon as the cuttings are thoroughly rooted they should be potted, using a light, sandy soil which has been run through a fine sieve. They are then placed on the benches of a low house in which they can be kept close and shaded for a time. Air is given more freely when they have taken a firm hold, but the atmosphere of the house must still be kept moist. The plants must be kept growing, potting them on as that operation becomes necessary. The soil may be made gradually coarser with each potting until in the final shift an unsifted compost of loam, leaf mold, well rotted cow manure and sand is used, adding a sprinkling of lime

When the plants are thoroughly established and the pots well filled with roots, weak liquid manure may be given occasionally. In summer they need plentiful supplies of water at the roots, but a much smaller quantity will suffice in winter. Some growers recommend syringing the



BEGONIA REVOLUTION.

plants, but my experience does not sanction it. Sometimes it can not be avoided entirely, as for example, when they are used with palms and other decorative plants in the conservatory during the summer season. Even then I avoid wetting the leaves as far as possible, and keep the house shaded, with plenty of ventilation day and night. But the result will be different if the plants are regularly syringed and kept close at night; the leaves will then be damaged and numerous small holes will render them imperfect.

For decorative purposes I consider good specimens in pots of medium size the most desirable. The leaves of such plants hide the pots and they are certainly more attractive than older ones destitute of foliage at the base. The old plants, however, are useful for propagation. Begonias, I find, are subject to mematodes at times. The trouble is said to be due to the use of old soil in potting. Where old soil must be used it should first be given a winter's freezing in a dry, open shed from which it can be removed at any time and thawed out as required. The addition of a little lime also helps as a preventive.

Among the best varieties of this section is Revolution, which takes its name, apparently, from the peculiar form of the leaves, a rather interesting feature, especially to amateurs. Marquise de Perlato is of very dwarf habit, producing numerous side shoots which are useful when it is necessary to increase the stock, as cuttings make plants more quickly than leaves. Another excellent variety is Duchess de Brabant, the large leaves of which extend over the pot completely obscuring it from view.

Ithaca, N. Y. ROBERT SHORE.

Chrysanthemum Notes.

It is getting along now toward the time when we should be on the lookout for the buds that are to be retained, and they should be taken or selected before the side shoots have an opportunity of drawing upon their vitality by absorbing the greater part of the nourishment given to the plants. When the lateral buds and shoots are large enough to be rubbed out without damaging the center bud, they should be removed.

We are taking buds this week of some varieties, the plants being from early propagated stock, and in most cases the buds now in process of formation are second crowns. Care must be taken to see that the buds are perfect in form; if the center bud is not perfect it should be removed and one of the side shoots retained to furnish another.

The variety Midge is the first one to form the bud with us and we find this early bud the best one to take, the next not making nearly so fine a flower. We have no trouble with weak necks in this variety, the bloom hardly getting above the foliage. Geo. S. Kalb is also setting the best bud to take, but care must be used with this one as we find it has a tendency to come blind. Yellow Queen from early stock is also showing the bud, but with June struck stock it is best not to take the bud until about the 1st to 10th of September. We also take the buds of Mrs. Jerome Jones as they come along now, the early buds making the largest and fullest flower and come pure white, while the later ones come mostly pink. Like Midge, this variety gives no trouble with the neck.

We also notice buds forming on Mayflower, Modesto, Mrs. Caton, Henry Hurrell and Ivory. The following are best from the terminal buds: Maud Dean, Viviand-Morel, Mrs. Martin A. Ryerson, Mrs. J. J. Glessner and Defender.

At present writing we are having a spell of hot weather with very heavy dews at night, which, with the full ventilation given, cause a damp atmosphere inside. We therefore discontinue syringing late in the day so as to have the foliage dry at nightfall.

Specimen plants need to be staked out



BEGONIA DUTCHESS DE BRABANT.

now and they should have plenty of water with an occasional dose of liquid manure. If the roots show at all on the surface of the soil, they need a mulch of well rotted manure. Single-stemmed plants should be in their flowering pots by this time; and staked up as soon as large enough; they need a light place near the glass and when pot-bound a little liquid manure may be applied.

C. W. JOHNSON.

Obituary.

MORRIS A. HILL.

The death of Morris A. Hill, a brief mention of which has been made in the AMERICAN FLORIST, removes from our midst a man whose noble traits of character endeared him to all those who had the good fortune to know and to come in contact with him. Mr. Hill was born in Goshen, Conn., sixty-three years ago, and came to Ansonia in 1864, moving from Thomaston and entering the employ of the Slade Woolen Co. For a number of years he was thus engaged, and after the company went out of business he commenced growing a few flowers and plants, extending his operations from time to time until he had the largest and best equipped greenhouses in Ansonia. For fifteen years he had also been the superintendent of the Pine Grove cemetery, and the work done there in late years has been under his supervision. The landscape gardening and beautifying of the grounds proved him to be an artist of the first rank.

A wife and five children mourn his death. The children reside at home, there being four sons and one daughter. The business will be carried on as heretofore by his heirs.

HOMO.

Carnation Culture.

If you have not commenced planting it is high time you were doing so, as the sooner after August 15 the carnations can be housed the better, providing the plants are large enough to give good results.

If the plants are small and puny it will be better to wait and give them the advantage of the good growing weather through September; this is better than to have such small plants to start with. Those outside will make three times the growth they would inside, and while it may make your flowers come a bit later, you can easily have them in for the holidays if planted between October 1 and 15 and the difference in number will more than repay for their lateness in blooming.

With plants of proper size it is best, however, to get them in as early as possible so as to have them well started and growing nicely before the fire heat is put on the houses. They seem to get a better start than if the houses are heated before they have taken hold.

Planting should never be entrusted to any but the very best men on the place and should always be done under your own supervision, as proper planting is the keynote to success. The plants must be carefully taken up so as to preserve as many of the roots as possible. If the soil is dry they will be the better for dipping the roots into water before planting them, and even if it is not dry they should be sprinkled as soon as they are taken up so that they will not become wilted before planting.

The beds or benches should be in the best possible condition, the soil just moist enough to work nicely. Planting should be done with a trowel and care must be used not to get the plant set too deeply. As soon as a small section is planted it should be heavily watered and slightly shaded, following this up until the entire house is planted. The after treatment consists in syringing them occasionally so that they do not become wilted.

I use ordinary mixed stable manure, well rotted, and apply as much of it as the soil may need. This will vary considerably, but should be not over five or less than three inches deep. If possible staking should be done as soon as the plants are set; with us it is usually part of the planting; we set a row and then tie it up. This makes the best job, although it means some hustling to get 60,000 plants properly housed and staked.

ALBERT M. HERR.



MORRIS A. HILL.

Helpful Reminders.

There is no better time than now to give begonias attention. They are one of the most satisfactory of house plants, are not expensive, and, although they demand some care, it is not difficult to grow them. There are so many distinct sorts that a house of begonias would give a great variety of flowers and foliage the year round. There is no better stock for a medium sized establishment to "make a hit on," for while begonias will not put up with shiftless treatment they all "look glad" when the proper care is given them. The most essential item in their treatment is high feeding.

Whenever you find a beautiful cluster of begonias you will notice that the soil is light in texture and very rich. You will find that the young roots have not been allowed to wilt, that the plants have not been crowded, that each branch has developed in accordance with its own instincts and not been affected by some protest of its neighbor. You will also notice that those varieties which are the most beautiful in color and form of foliage are brittle and do not stand wind, and that the color formations are such that require light, but not direct sunlight. Those with the more glossy surface can endure the sun, and some that are only grown for flower effect and have narrow leaves thrive best in it. By carefully reading the character of each variety, which is always portrayed by its foliage, you will soon be able to place each in its proper situation so that several varieties will grow to advantage in the same house. A temperature of from 50° to 60° is satisfactory, but begonias, like all other plants that require moisture, will be damaged by having the temperature fall so that the moisture in the air will be condensed on the foliage.

One of the most satisfactory flowers for August cutting is the shrub, clethra, commonly called the sweet pepper bush; upright spikes of leaves in pairs, resembling veronica, creamy white, sweet scented; can be cut long and keeps well. The shrub will grow in shade or in any place where you can find room for it.

C. B. W.

Flitting Reminiscences of Omaha.

"Prosit"!

"Gut Heil"!

"Ach! was fur eine Hitze"!

"Three cheers for Detroit"!

"Wie befinden Sie sich heute Morgen"?

The Clevelands play pedro like veterans.

The Purchase Department has another chance for its life.

The grafted rose had the best of the argument.

Omaha furnished the best meeting hall the Society ever had.

The corner table at the New Mercer belonged exclusively to N. J. Rupp, of Chicago.

"Donnerwetter! Vos ish dis? Schmaltzgesicht! Philadelphia licked by St. Louis"!

St. Louis to Buffalo—"You may look but you mustn't touch it. See?"

Who ever saw so many silver dollars? We were glad to spend them if only to get rid of them.

H. A. Hart, of Cleveland, was the happiest man in Omaha when he found that he could communicate with home by telephone.

Ten or more bowling teams are already in the field for 1899. A movement was started to procure a suitable trophy to be awarded the team making the highest aggregate score in three games at Detroit. All competing teams are invited to contribute $10 each. Several have subscribed already. John Westcott, of Philadelphia, will receive the cash.

Wm. Scott and another veteran have offered to bowl any other two S. A. F. members of equal combined age at Detroit next year, the losers to pay for a dinner, and we understand that John Westcott has accepted the challenge and selected his second. Thus waxes warm the rivalry between Buffalo and Philadelphia. We know the dinner will be a good one.

The excessively high temperature was attributed to Harry Balsley, of Detroit. He kept the telegraph wires hot for two days and nights.

Fair, very fair, were the members of the fair sex in attendance at Omaha.

Wonder how many times the mayor's golden keys were used?

John Westcott wants an entire day for the sports next year.

The neatest thing on record—Carmody's presentation speech.

"Nichts geht ueber die Gemuethlichkeit"

Philadelphia's commissary department was inexhaustible.

The Credit Department was "black listed."

Mayor Moore is all right.

"Wir gratuliren der Fest Behoerde."

"Auf Wiedersehen"!

"Hello, 55"!

"Prosit"!

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.
Subscriptions accepted only from those in the trade.

Advertisements, 10 Cents a Line, Agate $1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

It is said that the supply of some of the choice varieties of carnations will be short when housing time comes on.

PRESIDENT W. F. GUDE visited Denver and Colorado resorts after presiding over the Omaha convention. Mrs. Gude accompanied him.

J. D. EISELE, well known as the superintendent of Dreer's Riverton nurseries, is thoroughly enjoying his European trip with his family.

WE are in receipt of the Monmouth County Horticultural Society's list of premiums to be competed for at an exhibition scheduled for Wednesday, August 31 and Thursday, September 1 in the Casino, Rumson Road, Sea Bright, N. J. H. A. Kettel, Sea Bright, N. J., is secretary of the society.

THE discussions on rose culture, trade exhibitions and home grown bulbs at the recent convention clearly demonstrate the practical utility of the annual meetings of the S. A. F. The vein of earnestness which pervaded the entire proceedings was a happy omen for the society's future.

IN Buffalo's score at the convention bowling contest in the third game the 152 points credited to W. W. Coles, of Kokomo, Ind., should have been 174, making his total 437. Mr. Coles says that he takes much pride in this record as it is the best he ever made. It was one of the good scores of the tournament.

The Convention Photograph.

Those desiring copies of either of the group photographs taken on August 18 at the establishment of J. F. Wilcox, at Council Bluffs, Iowa, can obtain them at 75 cents each by addressing Frank Peterson, photographer, Council Bluffs.

President-Elect Rudd.

Willis N. Rudd, president-elect of the Society of American Florists, was born near Blue Island, Ill., March 30, 1860. His ancestors were New York farmers through many generations. Educated in the public schools of Blue Island, Ill., Scranton, Pa., and Watertown, N. Y., he was later employed in a stationery house in Chicago. In 1876 he obtained by competitive examination a four-year scholarship at Cornell University and entered the class of '80. He was out of college two terms in 1878, employed by the same stationery house. Just before graduation in 1880 he was taken suddenly ill and ordered home. Disabled for six months, all his money had disappeared when he recovered and took up work again. He taught school in Wisconsin until his health was fully restored, and returned to Chicago in 1881, remaining a short time with his old stationery employers. He next engaged with a machinery concern, occupying various positions for four years, when he bought an interest in the establishment and took charge. In a few months he sold out, however, and spent a year in the western department office of the Springfield Fire and Marine Insurance Company. In 1886 he took his present position as secretary, superintendent and director of the Mount Greenwood Cemetery Association. He was for many years postmaster, express and insurance agent at Mount Greenwood, Ill., and building the greenhouses there eleven years ago, he has been in the business commercially ever since. In this venture he has met with much success, but attributes most of it to the excellent abilities of his grower, C. W. Johnson.

Mr. Rudd was elected president of the Chicago Cut Flower Exchange when that institution was on its last legs, and he assisted at its obsequies. He has long been a member of the Chicago Florists' Club, and was elected its president but declined to serve. He has been a member of the Executive Committee of the S. A. F., was chairman of the Chicago Committee of the Chrysanthemum Society of America, resigning a year ago, and he is an ex-president of the American Carnation Society. In all departments of horticulture he takes a thorough interest and is well posted on everything that pertains to the business. When taxed with the rumor that he had once written a book, he blushed somewhat and said he thought that had been forgotten. This happened when he was young and as he has since reformed he hopes that a long life of rectitude may at some future day entitle him to forgiveness. In any case he was only responsible for half of the book.

New York.

SIGNS OF RETURNING PROSPERITY.—SATISFACTION REGARDING CONVENTION MATTERS.—COMING DINNER OF THE NEW YORK GARDENERS' SOCIETY.—OPENING MEETING OF NEW YORK FLORISTS' CLUB.

Everything in and about the city flower marts indicates that we are still under the spell of the mid-summer stagnation. Some of the wholesalers, however, whose fingers are constantly on the pulse of business, seeking for symptoms of returning life, think they can detect signs of awakening. The smallest of favors is thankfully received and every little movement brings encouragement for it has been a long, dull summer and a change will be welcomed by all. There are many causes—among them the happy close of the war—which contribute to a widespread confidence here that the coming months will bring a little of the old-time prosperity to the florist trade. Certainly no business stands in greater need of it and none has borne the depression and losses of the past few years with greater courage.

Roses everywhere are making fine growth in the benches and in many places carnations are already housed and looking well. The growers and commission men are beginning to make shy glances and affectionate little overtures towards each other, preparatory to more intimate relations and they will soon start to line up, some for the season, others till a fortnight before Christmas or some other equally opportune time for creating a little diversion.

Returning pilgrims from the Omaha convention report broiling weather there and on the homeward trip but otherwise are enthusiastic over their experiences and there are many who, now that it all went off so satisfactorily, express regret that they did not have the courage to participate. Detroit seems to be generally regarded as an excellent selection and it is possible that New York may be an applicant for the next turn.

The New York Gardeners' Society will have its annual dinner on September 10 at the Central Opera House. There are some fine alleys there and a bowling tournament is to be arranged to take place at that time, when all florists' teams in the country will be invited to take part.

The New York Florists' Club will hold its opening session for the coming season at the club rooms on the second Monday evening in September. The president is contemplating something of a social nature as an attraction at that time and no doubt a good attendance will reward his efforts.

St. Louis.

RETURNING CONVENTIONITES BRING THE BOWLING TROPHY.—MEMBERS OF THE TEAM NOT YET FULLY RECOVERED.—ALREADY PLAN A SECOND AND FINAL WIN AT DETROIT.

The pilgrims have all returned from Omaha excepting John Young and Fred Weber, who are pursuing their travels through Colorado, and it is needless to say that the St. Louis contingent is in a happy frame of mind. Our reception was warm, in fact it was entirely too warm on the part of the weather, as we were greeted with three of the hottest days of the season.

Members of the bowling club were too tired to assemble in full force at the alleys on Monday evening, and the reception that is to be tendered them has been postponed until they have fully recovered, and the weather has moderated. Congratulations appear to be in order and from the way they are being extended to members of the team one would judge that bowling is popular even among those who never show up at the alleys. All joking aside, however, the win of the St. Louis team seems to be popular and is fully deserved as a fitting reward for the steady, faithful practice which has continued uninterruptedly since the first organization of a bowling club previous to the St. Louis convention.

With the courage gained from having won this season, the boys will go to Detroit much better prepared to put up a stiff fight for first honors, and anyone beating them out will know they have been in a big game.

Quiet still reigns in the market. Trade in other lines, especially among the wholesale houses, is brisk and far ahead of anything St. Louis has had during the past four or five years; country merchants are buying heavily. If this can be relied on as a barometer, we are in for a very good season, and it will be most welcome to all. R. F. T.

Greenhouse Building.

Houston, Texas.—Wm. Kutchbach, greenhouse 35x60.

Rochester, Minn.—Mrs. M. J. Hyde, new residence and one house for roses.

Toledo, O.—E. A. Kulinke, one commercial house.

Western Springs, Ill.—Vaughan's Seed Store, three houses, each 18x125.

Beardstown, Ill.—F. Burtenshaw, new greenhouse and modern heating plant.

Hartford, Conn.—John Coombs, three houses each 20x100.

Warren, R. I.—A. E. Covell, large greenhouse.

Boston.

WATER LILY DAY AT HORTICULTURAL HALL UNDER THE AUSPICES OF THE MASSACAUSETTS SOCIETY.—HENRY A. DREER MAKES A FINE DISPLAY.—NOVELTIES WERE IN PROFUSION.—NOTES OF THE EXHIBITS.

Water lilies were scarce at Horticultural Hall on the day of the annual exhibit. Wm. Tricker, representing Dreer, was the only exhibitor. Very few of the better known kinds were shown; nearly all were recent varieties, some not yet introduced.

Among hardy varieties the finest was Nymphæa Gladstoneana. It is a form of the European N. alba, but far superior to the type and much better than N. candidissima and Marliac's N. albida. It is notable for breadth of petals and purity of color. N. Doogueana is a pink form of N. alba, delicately toned. N. tuberosa Richardsoni is nearly double and a great improvement on the type. N. Laydeckeri lilacina is a finely shaded rose; N. odorata Luciana, carmine pink, a great improvement on N. Caroliniana. Marliac's N. carnea and N. rosea are splendid acquisitions. N. alba Falconeri is a very deep rose and promises to make an important addition to the family. N. Robinsonia is a lovely warm rose.

Tender nymphæas were well represented. The light blue Australian species, N. gigantea, with staminate center, made a beautiful contrast. N. pulcherrima is another fine blue. It is a seedling from N. scuttifolia, and better and larger than N. Zanzibarensis, as well as a continuous bloomer. N. O'Marana, pink, of N. dentata type, is a cross between N. Sturtevanti and N. dentata, a very large bloom and freer than the parent. N. Deaniana, large pink, is after the N. Lotus type. N. rubra rosea is finely toned; N. delicatissima, lovely shade of pink.

Nelumbium Shiroman is a fine white Japanese double form of N. speciosum, a giant in growth and exceedingly attractive. The leaves are three feet across. Besides the above were N. lutea, N. speciosum Kermesina and N. striatum.

Dreer showed a remarkable lot of Italian and American cannas. W. N. Craig, of Taunton, hardy flowers, including the new Helianthus rigidia, Miss Mellish; Geo. Hollis, of South Weymouth, phloxes, Gen. Brice, scarlet, Richpin, white, pink eye, and Messenta, purple, especially worthy of mention. Rea Bros., of Norwood, also showed hardy flowers; J. Warren Clark, of Rockville, seedling gladioli, mostly of the Gandavensis type; these were exceptionally fine, and well worth especial mention.

Stanhopea tigrina, a remarkable orchid, was exhibited by E. A. and W. K. Wood, of West Newton. Asters came from Mr. Southers, of Jamaica Plain, and dahlias from William Winter, of Mansfield. A fine piece of Cypripedium Morganiæ from J. L. Gardiner, a large display of native flowers from Mrs. Richards, and native mushrooms made up the remainder of the show. T. D. H.

Japan lilies, asters, hydrangeas and gladioli fill the windows of the florists' stores now and constitute the bulk of the stock on hand, although if one takes an inquisitive look into the refrigerator he may find a few vases of unassuming roses, and carnations that have been picked out of doors, together with a few dozen sprays of lily of the valley waiting for a chance funeral order or a wedding that has been injudiciously arranged for the temper-trying weather which Boston is now experiencing and which the Omaha travellers are accused of having brought with them from the city on the plains.

The Garden Committee is quite well, thank you. The final one of several visits of recent date took place on Wednesday, the E. S. Converse estate at Malden being the objective point. Here the visitors were received by D. F. Roy, the gardener, and his hospitable lady, and were quickly made to feel at home. After a tour through the greenhouses and grounds, brief because of the intense heat, they sat down to one of the finest meals that it has ever been their good fortune to grace in their long term of service in this line, and to which they did ample justice, topping off with Grizzly Muscats, Black Hamburgs and similar hothouse products, of which we sometimes read, but seldom sample. Mr. Roy is a skillful grape culturist and four beautiful houses testify to that fact. Among other things that attracted much admiration were some magnificent begonias of the Rex type, of enormous proportions and perfect finish; elegantly grown ferns and stove plants, specimen chrysanthemums, and outdoors some fine ornamental beds, including several of Begonia Vernon and B. Erfordii, whose value as outdoor bedders is here thoroughly demonstrated. Mr. Roy has been in charge of this estate for ten years and it shows throughout the handiwork of a thorough and devoted gardener.

The American Forestry Association held their annual meeting at Horticultural hall on Wednesday and Thursday, August 24 and 25. There was a large attendance of gentlemen interested in tree culture and preservation and several valuable papers and addresses were presented.

A party of eight of the Old Guard enjoyed a picnic on the steamer Lewiston to Isles of Shoals on Wednesday, and all came back well sunburnt.

In town: Chas Loechner, New York; S. S. Skidelsky, Philadelphia.

Philadelphia.

HOME FROM THE CONVENTION.—ST. LOUIS PULLED THE STRING ATTACHED TO THE EVANS CUP.—BOWLING SUGGESTIONS.—EVERY ONE WAS PLEASED WITH THE RECEPTION AT OMAHA.—BUSINESS QUIET.—STOCK SHOWS IMPROVEMENT.—CARNATIONS ARE SCARCE.—SEED STORE ACTIVITY.

They are all back from the convention, but the cup did not come with them. There was a string attached when we got it in Providence last year; Brother Evans offered it that way. We didn't think much about the string them, it was a mere card, but about the first of August it seemed to swell and grow, until finally there was room for plenty of hands to take hold. When the cup reached Omaha those St. Louis boys fell in love with it and became tangled up with the cord; they proved their right to keep it this year. John Westcott says they won it like gentlemen and are, no doubt, proud, as they should be, of their achievement. The string is still there, however, and from all accounts there will be many hands outstretched at Detroit next season eager to grasp it. Those Buffalo chaps are great bowlers and if there were only more of them there is no telling what prizes they might win. We think, in all fairness to contesting teams, that made up or mixed clubs should not be allowed to take up the time when they have no chance at the prize. We believe that now would be a good time to institute a National Florists' Bowling League, with rules for conducting the tournament in a business-like manner so that all shall have equal advantage. We would earnestly suggest that teams should consist only of bonafide florists who shall be members of, and reside in the city represented by the club.

The boys are more than pleased with their reception in the convention city. They particularly mention the trolley ride and generous treatment received at the hands of Mr. Wilcox and his charming wife, and the many pretty girls who attended to their wants about the bounteously laden boards will linger long in their memories.

Business is quiet; it always is this time of year. A little seashore demand together with the more or less work for the funerals that are always with us help to keep down the surplus. The weather is very warm again and will have a bad effect on stock. Beauties are improving; the stems are becoming longer and the flowers a trifle larger. Special Kaiserins, the Lonsdale brand, as good as the best winter stock, bring $5 and $6 per hundred. Carnations are scarce; 50 cents to $2 per hundred is the price, the latter for a few extra Flora Hill. The seed stores begin to show some activity in getting out their bulbs. Romans, narcissi, Bermuda lilies and other stock is displayed in large quantities.

Abraham Knowles died at St. Joseph's hospital on Tuesday, August 23, of typhoid fever. Deceased was an associate member of the Florists' Club and much liked by his fellows. The body has been embalmed and the funeral will take place in about ten days, on the return of his wife and family from England where they only recently journeyed to visit relatives.

K.

Chicago.

SWELTERING WEATHER GIVES THE MARKET A SET BACK.—TOO MUCH STOCK FOR THE DEMAND.—HEAT MAKES ROSES POOR.—SOME SPLENDID ASTERS.—PLANTING CARNATIONS UNDER DIFFICULTIES.—A NEW RETAIL STORE.—CONVENTION VISITORS.—JOTTINGS.

The cut flower market has been in pretty fair shape during the past month, but in the first days of this week it received a decided set back. The weather was as hot as has been recorded this summer and both buyers and blooms suffered from Old Sol's keen rays.

There has been a larger cut of all flowers than the market could assimilate and prices have taken a reactionary step. The best Beauties now coming in command but $2 per dozen where poorer flowers two weeks ago sold readily at $2.50. Carnations, which have been quite strong in price, have weakened in sympathy with other crops and $1.50 will now buy the best 100 blooms in the city. There are virtually no Testouts in the market and while Brides, Bridesmaids, Perles and Kaiserins are occasionally received in qualities commanding long prices the bulk of the stock is of the penny order.

The extreme heat is responsible for the poor quality of much of this week's cut. With the thermometer registering from seventy to ninety during the hours from dark till dawn it is a pretty hard matter to capture roses in the bud and as a consequence most of the stock has been wide open, with the balance too close to fetch a price. On Tuesday, one of the hottest days, one fakir drove a Beauty bargain whereby one of the wholesale houses parted with seventy-five flowers for $1.10.

The stems ranged from one to two feet in length, but, of course, the blooms were flat and necessitated immediate sale. Every one is busy sorting in these days.

The cool wave which arrived on Wednesday was most welcome and somewhat alleviated the aggravating conditions in both market and greenhouse.

The quantity of flowers has been increasing each day and there is now a glut in several lines of stock. Asters are in superabundance and sweet peas and outdoor lilies are too plentiful. This year's cut of asters has been particularly large and fine. Several growers have sent in blooms as big as fair sized chrysanthemums, but with a number of them this week has seen the end of the crop.

Nearly every grower has spent the week in planting carnation houses, but the work has progressed under difficulties. The advice of those who preach early planting is being very generally accepted this year and the indoor movement of plants was begun much sooner than is usually the case. One reason for this is the fact that it has been a good growing season and everybody has good, large, stocky plants. But the hot wave made the filling of houses a very trying task. It was almost impossible for workmen to exist in unshaded houses and the plants felt the heat almost as much as did the men.

Chicago is to have a new retail store for the fall season and one which is to eclipse anything in the city. The work of fitting up the store is now under way and the proprietor, J. N. Anderson, of the Anderson Art Company, corner Wabash avenue and Madison street, expects to be ready to receive the elite by the middle of September, which is as soon as the resorters will forsake the cool breezes of lake and sea and mountain. Mr. Anderson has chosen New York's swellest flower store as a model for his establishment and is lavishing his bank account in his decorative work. His location, on Madison street next door to his art store, at the elevated railroad station and where the crowds to the south side cable and Illinois Central pass, is one of the best in the city.

The convention visitors again took possession of the city on Sunday and Monday and have been lingering with us all the week. The Cleveland delegation, headed by Adam Graham, visited Milwaukee by boat on Sunday and then proceeded on their homeward way. The New York contingent spent Sunday here and a quartet consisting of Robert Craig, of Philadelphia, and A. Gude, brother of Pres. W. F. Gude; C Schellhorn and F. H. Kramer, of Washington, devoted Sunday to Bassett & Washburn's at Hinsdale and Monday to Reinberg Bros.' great establishment. Among other visitors were Cornelius Loder, of the National Florists' Board of Trade, C. H. Reed, of Birmingham, Ala., J. E. Killen, representing C. H. Joosten, Emil Leuly, of West Hoboken, and J. G. Esler, of Saddle River. Mr. Esler found the time ripe to gain a number of members for the Hail Association.

Harry A. Balsley, the red pot man and president of Detroit's park commission; A. L. Brown, of Philadelphia; W. W. Coles, Kokomo, Ind.; Philip Gauges, Washington; E. G. Hill, Richmond, Ind.; A. Klokner and C. B. Whitnall, Milwaukee; D. B. Long, Buffalo; Chas. Longinotte, J. F. Sibson and wife, and John S. Westcott, Philadelphia; A. Schmitt, Glennville, O.; W. J. Vesey and wife, Fort Wayne, Ind.; and the veteran Antoine Wintzer, of West Grove, Pa., made brief visits here while homeward bound from the convention.

J. S. Wilson was taken ill upon the train while returning from Omaha and was assisted to his home at Western Springs. His improvement was rapid.

A. J. Graves, of Bloomington, was a visitor on Thursday. Mr. Graves is making a number of improvements to his establishment.

Edgar Sanders was elected vice-president for Illinois at the Omaha meeting of the S. A. F. He will fill the office with dignity and distinction.

Louis Gresenz, of Bassett & Washburn, returned Monday from a two weeks outing among the Wisconsin lakes. Mrs. Horton has gone east for her vacation.

W. E. Cook, formerly a traveler for the late firm of Pitcher & Manda, is engaged in the life insurance business here.

C. N. Thomas, accountant for A. L. Randall, is at his old home in Pennsylvania for his vacation.

Mr. and Mrs. Uriah J. Virgin, of New Orleans were callers this week.

WILLIAM TIFFANY died in Boston August 25.

DIXON, ILL.—Mrs. Wm. Pankhurst has sold her greenhouse and has leased her garden to Frank M. Davis, of Polo, Ill.

FREEPORT, PA.—John Flemm died at the age of 55 years. He was the father of William Flemm, the florist at Sixth and Liberty streets, Pittsburg.

AMBOY, IND.—F. B. Tinker has demolished a portion of his establishment and will erect a greenhouse thoroughly modern in every particular.

LOUISVILLE, KY.—Burkard Zoeller, aged 67, and the oldest gardener in Jefferson county, died of dropsy, August 12. He leaves a wife and eight children.

AMES, IA.—Prof. John Craig, of Cornell University, Ithaca, N. Y., has been chosen to succeed Prof. J. L. Budd, who recently resigned the chair of horticulture and forestry in the Agricultural College.

FREMONT, NEB.—Chas. Green, of Green & Nicol, was planning to attend the Omaha convention but as an inducement to stay at home Mrs. Green presented him with an eight and one-half pound son.

FLORISTS' HAIL ASSOCIATION.

SECRETARY'S REPORT, AUG. 1, 1898.

The Florists' Hail Association at this date consists of 762 members. The risks are upon 2,594,982 square feet of single thick glass, 5,468,067 square feet of double thick glass, an extra one-half insurance upon 162,213 square feet of single thick glass, and 301,078 square feet of double thick glass, an extra whole insurance upon 556,697 square feet of single thick glass and 1,337,706 square feet of double thick glass, the whole being equivalent to a single insurance upon 10,189,097 square feet of glass.

The Reserve Fund consists of $5,200 in securities (all of which are worth at least par and some would command a premium of 8 per cent), and $662.48 cash in the hands of the Treasurer, making a total of $5,862.48.

The amount of Emergency Fund in the hands of the Treasurer on August 1, 1898, was $2,318.45, making a total cash balance of $2,980.93.

The eighth assessment levied March 1, 1898, amounted to $5,790.18. Other receipts have been, from interest on investment, $235.32. Money drawn which had been temporarily invested, $2,500. Refunded by R. Brown & Son on re-adjustment of loss, $360.21. Evanston school fund paid before due, $500. New business for year ending August 1, 1898, $1,650.14. These items, with last year's balance of $5,581.05, make a total of $16,616.90.

The expenditures have been: Losses, $7,585.88. Investments, $5,200. Running expenses, $850.09, making a total of $13,635.97, leaving a cash balance of $2,980.93 in the hands of the Treasurer, of which $2,318.45 belongs to the Emergency Fund.

The losses during the past year have exceeded any previous year, 77,341 square feet of single thick glass having been broken, and 48,711 square feet of double thick glass.

One square foot of single thick glass has been broken to every 33 and 42,739-77,341 feet insured and one square foot of double thick glass has been broken to every 110 and 9,857-48,711 square feet insured. The feature of the past year has been the large percentage of breakage of double thick glass as opposed to the small percentage of last year. Also the large percentage of delinquents on the eighth assessment, which was largely due to deaths, failures, removals, dissolution of partnerships, retirement from business and other causes. The large volume of new business has more than taken the place of the delinquents who retired.

Your Secretary has also to report the discovery of two errors in proofs of loss.

A recount of glass was made by a special agent employed by the Secretary and a re-adjustment of losses was made. R. Brown & Son, of Kansas City, promptly refunded to the Association $360.21. The re-adjustment of the loss of Baker Bros., of Kansas City, amounting to a balance of $85.62 in favor of the Florists' Hail Association, is still pending, owing to their absence from home. The Association has the assurance of their attorney that it will be attended to promptly upon their return.

The annexed table may be of interest to those who are desirous of locating the hail belt. Your Secretary does not suppose for a moment that he has been able to locate every hail storm for the past eleven years, but he has done so as far as he has been able, and the information furnished is interesting to those who are willing to study statistics.

STATES.	No. of hail storms from June 1, 1887, to August 1, 1898.	No. of losses paid from June 1, 1887, to August 1, 1898.	No. of hail storms for year ending August 1, 1898.	No. of losses paid for year ending August 1, 1898.
Maine	3	..	..	..
Vermont	3	..	..	..
New Hampshire	3	1	1	..
Rhode Island	3	..	1	..
Connecticut	4	..	..	..
Massachusetts	7	..	1	..
New York	49	6	3	..
New Jersey	36	5	4	1
Pennsylvania	36	19	4	3
Delaware	1	1	1	1
Ohio	34	27	4	3
Indiana	9	4	2	2
Illinois	42	29	4	4
Michigan	9	3	1	..
Wisconsin	15	14	3	2
Minnesota	16	5	1	1
Iowa	23	27	3	2
Missouri	39	59	5	14
Kansas	27	44	7	10
Nebraska	13	17	1	
Arkansas	2	..	..	..
Colorado	20	16	7	5
North Dakota	5	1	2	1
South Dakota	8	4	1	1
Montana	1	..	..	..
Wyoming	1	1	..	..
Maryland	6	3	2	2
Virginia	2	1	1	1
West Virginia	10	2	1	..
North Carolina	3	..	..	..
Kentucky	5	..	1	..
Georgia	3	..	..	..
Texas	5	1	..	..
Louisiana	2	..	..	..
Tennessee	1	1	..	..
Florida	1	..	..	..
Mississippi	1	..	..	..
Oklahoma Territory	4	4	2	2
Indian Territory	1	..	..	..
District of Columbia	3	..	..	..
Canada	2	1	..	..

Three violent storms doing great damage have been noted this year—one at Kansas City, Mo.; one at Harrisburg, Pa., and one at Auburn, N. Y. The Association lost heavily at Kansas City, because nearly every florist was insured. At Harrisburg and Auburn they lost nothing because no one was insured.

The value of hail insurance may be inferred.

JOHN G. ESLER, Sec'y.

TREASURER'S REPORT OF THE FLORISTS' HAIL ASSOCIATION.

1897.	LOSSES.	
July 13.	Green & Nicol, Fremont, Neb.	$ 16.40
July 19.	F. Heath, Hunter, S. Dak.	4.20
July 22.	E. C. Newbury, Mitchell, S. Dak.	77.26
Aug. 19.	R. Pabst, Rutledge, Pa.	12.50
" "	J. R. Goldman, Middletown, O.	5.97
" "	Henry Engler, Philadelphia, Pa.	16.45
" "	A. M. Troxwell, Knightstown, Pa.	21.25
" "	Jos. T. Sullivan, Moorestown, N. J.	15.82
" "	Henry Baker, Pueblo, Colo.	26.00
" 23.	Lizzie Lindsay, Lake View, Minn.	7.25
" "	Button Bros., Lake Geneva, Wis.	91.00
Sept. 13.	Fred Bishop, Sioux City, Ia.	4.00
" "	E. C. Newbury, Mitchell, S. Dak.	5.07
" 22.	C. G. Turner, Wilmington, Del.	71.38
1898.		
Feb. 5.	James Frost, Greenville, O.	28.01
" 21.	Furrow Bros., Guthrie, Oklahoma.	194.68
April 8.	B. Henshon, Lawrence, Kan.	3.50
" "	Junction City Floral Co., Junction City, Kan.	21.70

Apr. 16,	Henry Schwarz, Cincinnati, O.	8.74
May 11,	Chas. Kraatz, Linwood, Mo.	5.00
" 20,	Furrow Bros., Guthrie, Oklahoma.	38.28
" 23,	Junction City Floral Co., Junction City, Kan.	186.76
" 25,	Robt. S. Brown, Kansas City, Mo.	1978.19
" "	Mrs. Mary Ackerman, " "	162.68
" "	A. F. Barbe, Kansas City, Mo.	398.91
" "	Humfeld Floral Co., Kan. City, Mo.	826.72
" 26,	Baker Bros., Kansas City, Mo.	557.50
" 27,	James Payne, Kansas City, Mo.	236.45
" 28,	Heite Floral Co., Kansas City, Mo.	347.84
" "	John S. Morris, Miriam, Kan.	91.55
" 31,	W. P. Ranson, Junction City, Kan.	27.35
" "	Henry Smith, Kansas City, Mo.	172.05
" "	W. J. Barnes, Kansas City, Mo.	353.34
" "	A. B. Davis & Son, Purcellville, Va.	43 85
" "	J. M. Longsdorf, Mechanicsburg, Pa.	32.21
June 2,	John Eberhart, Franklintown, Md.	24.22
" "	Mrs. S. E. Luther, Kan. City, Kan.	51.21
" 6,	Emil Buettner, Park Ridge, Ill.	54.17
" 7,	Mrs. S. H. Bagley, Abilene, Kan.	10 00
" "	Geo. W. Kline, Anderson, Ind.	43.99
" 10,	Aug. Blankenfeld, Kansas City, Mo.	89.85
" "	Wm. Clark, Colorado Springs, Colo.	204.26
" 11,	Edward T. Owen, Madison, Wis.	37.35
" "	Sam'l Feast & Son, Baltimore, Md.	129.52
" 14,	E. W. Hicks, St. Louis, Mo.	27.79
" "	A. Jablonsky, Wellston, Mo.	30.00
" 20,	Lyle C. Waterbury, University Park, Colo.	164.25
" "	Junction City Floral Co., Junction City, Kan.	31.08
" "	Chas. Duer, Park Ridge, Ill.	16.13
" 23,	Jas. Aldous & Son, Iowa City, Ia.	8.30
" "	Paul R. Brooks, Lawrence, Kan.	7.52
" 27,	J. F. Ammann, Edwardsville, Ill.	54.00
" "	C. E. Kern, Kansas City, Mo.	335.82
" "	A. T. Shotwell, Fargo, N. Dak.	14.08
July 6,	J. J. Soper, Rockford, Ill.	6.35
" "	Jas. L. Varnum (trustee), N. Y. City	51.75
" "	" " " "	96.92
" 13,	F. Keuchenmeister, Wichita, Kan.	7.52
		$7585.88

1897. EXPENSES.

Aug. 19,	A. T. DeLaMare, circulars with coupons	$ 2.10
Sept. 13,	New England Florist Co., advert's'g	1.00
" "	American Florist Co.	28.70
" 17,	John G. Esler, Cram's Atlas	7.00
" 27,	A. T. DeLaMare, letter heads and orders	5.50
Oct. 15,	A. T. DeLaMare, letter heads	1.65
" "	Albert M. Herr, printing reports and expressage	2.15
" "	C. A. Wilden, Sec'y Tri-State Building and Loan	2200.00
" 27,	New England Florist Co., advert's'g	2.13
Nov. 3,	Wilson Humphreys & Co., entry book	5.00
" 27,	A. T. DeLaMare, assessm't papers	24.60
" 29,	Lancaster Trust Co., box rent	5.00
Dec. 18,	Hackensack Republican, 1000 envelopes	3.00
1898.		
Jan. 3,	Florist's Exchange, advertising	7.50
" 19,	New England Florist Co., advert's'g	4.55
" 26,	John G. Esler, 6 months' salary	200.00
" "	J. M. Jordan, 6 months' salary and postage	27.00
Feb. 8,	A. T. DeLaMare, letter heads	2.08
" "	Lancaster Trust Co., money on interest, 6 months	2500.00
Mar. 15,	Frank J. Faesig, envelopes	1.75
" "	John G. Esler, postage	25.51
April 1,	A. T. DeLaMare, stationary	10.45
May 2,	Frank J. Faesig, 1000 envelopes	2.50
" 26,	A. T. DeLaMare, letter heads and envelopes	6.00
" 31,	New England Florist Co., advert's'g	3.15
June 10,	A. T. DeLaMare, letter heads and envelopes	6.00
" 20,	A. T. DeLaMare, circulars and affidavits	15.20
" 23,	A. M. Herr, overcharged reinsur'ce	20.12
July 6,	The Hackensack Republican, certificates	11.00
" "	A. T. DeLaMare, letter heads and applications	7.00
" 7,	Florist's Exchange, advertising	6.50
" "	Albert M. Herr, government bond	500.00
" 13,	John G. Esler, salary and postage	224 20
" "	Albert M. Herr, salary and postage	130.00
" "	S. Murray, expenses for readjusting loss	6.75
" 15,	J. C. Vaughan, salary	25.00
		$6030.09

RECEIPTS.

Interest on Evanston bond	$	12.27
Evanston bond		500.00
Interest on two Orville township bonds		50.00
" " school bonds		50.00
" City of Chicago bond		20.00
" on Tri-State Building and Loan, Ft. Wayne, Ind		58.05
" on $2500 drawn before expiration of time		25.00
Money placed on interest and drawn for use July 7		2500.00
" returned by Brown & Sons, of Kansas City, Mo., in excess of loss		360.21
" received from 7th assessment		5790.18
" " " membership fees		647.22
" " " first assessments		480.93
" " " additional assessm'ts		230.01
" " " extra one-half		33.46
Money received from extra whole		164.06
" " " reinsurance		94.46
Balance of last year		5581.05
		$16,596.90
Less expenditures		13,615.97
Balance		$2980.93

INVESTMENTS.

Orville township bond, N. J., 5 per cent, value, $1.08	$500.00 face
Orville township bond, N. J., 5 per cent, value $1.08	500 00 "
School bond, Dist. of Ill., 5 per cent, Co. of DuPage	500.00 "
School bond, Dist. of Ill., 5 per cent, Co. of DuPage	500.00 "
City of Chicago bond, 4 per cent	500.00 "
Invested in the Tri-State Building and Loan Association, of Ft. Wayne, Ind., 5 per cent	2200.00 "
U. S. government bond, 3 per cent	500.00 "
	$5200.00

Signed: ALBERT M. HERR, Treas.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED—By an A1 rose grower, up-to-date commercial place preferred. Address 329 Fifth Avenue, Chicago.

SITUATION WANTED—As florist; 6 years' commercial experience; single; private or commercial. References. Address I H A, Warren, O.

SITUATION WANTED—As foreman, with reliable party. Up-to-date grower, roses, etc. Best references. Address METEOR, care American Florist.

SITUATION WANTED—By rose and carnation grower, age 28, single. Good references. State wages. Free Sept. 15th. Address GROWER, 67 Bromfield St., Boston.

SITUATION WANTED—By all around man; single. Private or commercial place. State wages when writing. First class references. Address FLORIST, 1707 Seaview Ave., Bridgeport, Conn.

SITUATION WANTED—As foreman, by first-class Beauty grower; competent to take full charge of commercial place. Married. Good references. G H, North Wales, Pa.

SITUATION WANTED—By single florist, German, age 30, 15 years' experience in all branches; good designer; sober and reliable; salary $50 per month; only responsible parties need answer. Address JOE STUBER, Shreveport, La.

SITUATION WANTED—By practical florist, German, single; first-class rose grower, also carnations, violets and general stock; 20 years' experience. Competent to take charge. Best of references. Address FLORIST, care Mosher House, Hillsdale, Mich.

SITUATION WANTED—As foreman, competent to take a position where choice roses, carnations, 'mums, etc., are the object; 13 years' experience, two years with Mr May. Within 50 miles of New York preferred. Address S A H, care Mr. May, Summit, N. J.

SITUATION WANTED—As headgardener, by an Englishman, age 40; thorough grower of stove and greenhouse plants. Fruit forcing and orchids a specialty. 7½ years in last situation. Apply to J C, care Robt. Craig & Son, 49th and Market Sts., Philadelphia, Pa.

SITUATION WANTED—By a young man of 28 years, German, as assistant in commercial or private place; 12 years' experience in general greenhouse work and bedding. Address JOHN C. KRAGES, 1947 Brook St., Louisville, Ky.

WANTED—The address of Thos. McAllister, by CHAS. M. WEINTZ, Akron, O.

WANTED—A good young man as under foreman, to grow roses, carnations, violets and mums. MANN & BROWN, Richmond, Va.

WANTED—A greenhouse hand, to fire boilers and do general work. State wages, etc. Address K, care American Florist, Chicago.

WANTED—Immediately, a competent florist who is able and willing to work. Wages $20 per month and board, with advance to competent man. Address W. H. WRIGHT, 204 First East St., Vicksburg, Miss.

WANTED—Competent, practical and responsible grower to take charge of store and greenhouses of wholesale and retail florist business in a western city. Address B B, care American Florist.

WANTED—Assistant foreman who is capable of growing roses, carnations and general greenhouse stock. Wages $20 per month and board. Steady place. Address M I, care American Florist.

WANTED—A florist who can grow good A1 roses, carnations, etc., and to act as foreman. State salary expected, age, nationality, and full particulars. References required. Address C A L, care American Florist.

WANTED AT ONCE—Strictly first class rose and carnation grower, capable of taking charge; must be steady, sober and reliable. Wages moderate until ability is shown. Good opening, and steady work. References required. ROBERT M. WALKER, Oxford, Butler Co., O.

WANTED—A single man, by Sept. 1st, as working foreman, who understands growing carnations, violets, 'mums, and general stock. Must be sober, honest and a hustler. Wages $25 per month and board, or more if found to be worth it. Address CHAS K SWENSON, 210 Asylum St., Hartford, Conn.

FOR SALE—Four greenhouses, near y new. Good retail stand. A. CLAUS, Springfield, Ill.

FOR SALE—A fine, new showy florist's ice box; made in sections. Comes all apart, can be set up anywhere. Call at 302 East 55th st., Chicago.

FOR SALE—Boiler, Hitchings No. 23, with 200 feet 1¼ inch pipe and three radiators; galvanized expansion tank, valves, etc.; in use 6 months; will sell cheap. Address W E B, 812 W. 7th St., Cincinnati, O.

FOR SALE OR RENT—Good retail stand, 5000 feet of glass (new), has never paid less than $1300 per year net. Must buy stock. Reason for quitting, failing health. Address ILL., care Am. Florist.

FOR RENT—To reliable party, the old establishment consisting of 11 greenhouses; 16,000 feet of glass; newly rebuilt; also store; finest location in Chicago; cause poor health. GARFIELD PARK FLORAL CO., 1688 W. Madison St., Chicago.

FOR SALE—Leading florist business in western city; store connected with conservatory in principal hotel; 6000 feet of glass, and houses for 10,000 feet more, all except the roofs, in good condition, including plants, and full equipment. Terms to suit. Address WESTERN, care American Florist.

For Sale or Rent.

Five greenhouses with No. 1 stock (everything); 6¾ acres of land, prepared soil; steam pump and mill; brick dwelling, large barn. A beautiful home, and a No 1 stand for business. Will sell or rent reasonable. Poor health. It is a bargain for any florist. Address PAULENA ENGLISH, Oconomowoc, Wis.

FOR SALE
AT A BARGAIN.

A hot water boiler, suitable for heating about four or five thousand feet of glass. Also about eight hundred feet of 4-inch pipe. Address

W. P. HARVEY, Geneva, Ill.

CHICAGO LOTS FOR SALE

One block from corner of Lincoln Avenue and Wellington Street, a bunch of lots at $25.00 per front foot; sewer and water. Suitable for greenhouse purposes.

JAMES ROOD, Jr.,

Tel. Main 3868. Room 5, 154 Lake St., Chicago.

FOR SALE!

A florist establishment for sale consisting of 13,000 sq. ft. of glass, in good condition. Heated by steam; in the city limits, located in a city of 18,000 inhabitants on the Mississippi river in Iowa, with several acres of land and dwelling house; must sell soon on account of old age. For further particulars address

IOWA, care American Florist.

FOR SALE.

FIFTY HORSE POWER BOILER with front and fittings complete, F. O. B. $100.00. Is in first-class condition, in use only five years heating school at low pressure.....

Address **JOSEPH KIFT, West Chester, Pa.**

FOR SALE OR RENT
VERY CHEAP.

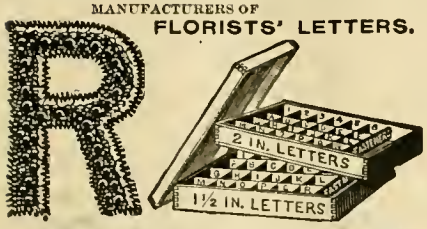
The largest greenhouse establishment in Leavenworth, Kansas, consisting of four greenhouses (about 9000 square feet of glass), dwelling house, etc., on one acre of land, within four blocks of an electric car line, reaching both the Fort and Soldiers Home. Creek runs through ground. Heating apparatus and water pump in best condition. Greenhouses need some repairs. Price, $1,500. Easy payments. Worth twice the money. Rent $150 if party keeps greenhouses in repair. Immediate possession given. Address

CHARLES F. C. SMITH,
116 South Fifth St., Leavenworth, Kan.

When corresponding with advertisers, mention the AMERICAN FLORIST.

Boston Florist Letter Co.

MANUFACTURERS OF
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $5.00.
Script Letters, $4. Fastener with each letter or word.
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

THE WABASH R. R. COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A.,
387 Broadway, New York City,
J. D. McBEATH, N. E. P. A.,
5 State Street, Boston, Mass.
C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

THE NICKEL PLATE ROAD

will sell tickets to Boston, Mass., and return at a fare and one-third for the round trip, on the certificate plan, account of meeting of Street Railway Association of America, September 6 to 9, 1898. Two through trains daily, with service equal to that of any line between same points. You will save money by patronizing the Nickel Plate Road. J. Y. Calahan, 111 Adams St., Chicago, will be pleased to turnish any information relative to dates of sale, etc. Depot Van Buren Street Passenger Station, on the Loop. Telephone, 3389 Main. (62).

$26.00 TO BOSTON AND RETURN

on the certificate plan, via Nickel Plate Road, account of meeting of Street Railway Association of America, September 6 to 9, 1898. For further information, write J. Y. Calahan, 111 Adams St., Chicago. Depot, Van Buren Street Passenger Station, on the Loop. Telephone, 3389 Main. (63).

NIAGARA FALLS EXCURSION

via Nickel Plate Road, at a fare and one-third for the round trip, on certificate plan, account meeting of Army of the Potomac, September 1 and 2. For full information, address or call on J. Y. Calahan, 111 Adams St., Chicago. Telephone Main 3389. Van Buren Street Passenger Station, on the Loop. (64).

$18.00 TO NIAGARA FALLS AND RETURN,

via Nickel Plate Road, on certificate plan. Tickets available on any one of our three through daily express trains, which carry through vestibuled sleeping cars and afford excellent dining car accommodations. For sleeping car reservations and further information, address or call on J. Y. Calahan, 111 Adams St., Chicago. Telephone Main 3389. Van Buren Street Passenger Station, on the Loop. (65).

FRED. BURKI, Pres.
T. P. LANGHANS, Sec'y. WM. A. CLARKE, Treas.

Pittsburg Cut Flower Co. LIM.

WHOLESALE FLORISTS, 705 Penn Ave., PITTSBURG, PA.

Open for business September 1st, 1898.
Correspondence solicited.

Wholesale Flower Markets

CINCINNATI, Aug. 25.

Roses, Brides, Bridesmaids	2.00@3.00
" Meteors	3.00
" Perles	2.00@3.00
Carnations	.75@1.00
Tuberose	3.00
Lily of the valley	4.00
Smilax	10.00@12.50
Adiantum	1.00
Asparagus	50.00
Asters	.75@1.00
Common ferns	.15

ST. LOUIS, Aug. 25.

Roses, Beauties	3.00@15.00
" Meteors	2.00@5.00
" Brides, Bridesmaids	2.00@4.00
" Perles	2.00@3.00
" Kaiserins	2.00@6.00
Carnations	1.00
Asters	1.00@2.00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@75.00
Gladioli	2.00
Tuberose stalks, single and double	3.00

MILWAUKEE, Aug. 25.

Roses, Beauties	5.00@20.00
" Brides, Bridesmaids	2.00@4.00
" Perles	1.00@3.00
" Meteors	2.00@4.00
" Kaserins	2.00@5.00
Carnations	.50@1.00
Sweet peas	.08@.10
Gladioli	2.00@3.00
Smilax	10.00@15.00
Adiantum	.75@1.00
Common ferns	.20
Asparagus	50.00
Asters	.50@1.00
Common ferns	.20

BUFFALO, Aug. 25.

Roses, Beauties	5.00@25.00
" Brides, Bridesmaids	2.00@6.00
" Meteors	2.00@6.00
" Perles, Niphetos	1.00@3.00
" Kaiserins	2.00@6.00
Carnations, ordinary	.75@1.25
" fancies	1.25@2.00
Lily of the valley	4.00@5.00
Smilax	10.00@15.00
Auratum lilies	8.00@10.00
Album rosaum lilies	5.00@6.00
Asters	.50@1.50
Adiantum	1.00@1.25
Asparagus	50.00@75.00
Gladioli	1.50@3.00

LOUISVILLE, Aug. 25.

Roses, Beauties, per dozen	.75@1.50
" Brides, Bridesmaids	2.00@3.00
" Meteors	2.00@3.00
" Kaiserins	2.00@4.00
" Perles	1.50@2.00
Carnations, fancy	1.25@1.50
" common	1.00
Mignonettes	.25
Smilax, per dozen	1.25@2.00
Adiantum	.75
Asparagus, per string	.50
Dagger ferns	per M, $1.00
Fancy "	" 1.50
Asters	1.00@1.25

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

WM. F. KASTING WHOLESALE COMMISSION FLORIST....
495 Washington St., Buffalo. N. Y.
Also Dealer in Florists' Supplies and Wire Designs

IT IS A GOOD PLAN TO

PLAN AHEAD!

For next season you may want some Novelties illustrated or plates of same; Special Stationery, Covers, Catalogues, Booklets or Folders, Blotters, Calendars, or other Fine Printing. RIGHT NOW, the leisure time of year, is the best time to attend to such.

Original Designing. Ideas Practically Shaped.
MODERATE PRICES.
CORRESPONDENCE INVITED.

Dan'l B. Long, Publisher Buffalo.

REED & KELLER.....
Florists' Supplies
122 W. 25th St., NEW YORK CITY.

M. Rice & Co.
Exclusive Importers and Manufacturers of....
Florists' Supplies
25 N. 4th Street, - PHILADELPHIA, PA.

H. BAYERSDORFER & CO.
Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

New Catalogue of all FLORISTS' SUPPLIES on application. For the trade only.

H. BAYERSDORFER & CO.
50, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

John Conley & Son,
Manufacturers of
TIN FOIL
2 AND 4 DOMINICK STREET,
New York.

Hardy Cut Ferns!
SPHAGNUM MOSS, 40c BBL.

Bouquet Green, Galax Leaves, Laurel Roping, &c. &c. Everything in green line always in stock at

H. E. HARTFORD'S, 18 Chapman Place. BOSTON.

BRILLIANT GREEN AND BRONZE
GALAX LEAVES,
For Decorating and all Florists' Designs.
CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

HAIL
For Insurance Against Damage by Hail Address
JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

There Are Buyers
For all kinds of good stock advertised in.....
THE AMERICAN FLORIST

E. H. Hunt

THE "OLD RELIABLE" FOR

WHOLESALE

CUT FLOWERS

Hunt's Flowers
Go Everywhere

76 Wabash Ave., CHICAGO.

E. C. AMLING

Wholesale Cut Flowers

51 Wabash Avenue,

W. S. HEFFRON, Mgr. CHICAGO.

A. L. RANDALL

Wholesale Florist

Don't Forget that we are at 4 Washington St., Chicago.

Write for special quotations on large orders.

V. M. & W.

Wholesale Florists

47 Wabash Avenue, CHICAGO.

Bassett & Washburn

88 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

Wholesale Flower Markets

CHICAGO, Aug. 26.

Roses, Beauties per doz.	.50@2.50
" Brides	2.00@ 3.00
" Meteors, Kaiserins	2.00@ 4.00
" Bridesmaids	1.00@ 3.00
" Perles	1.00@ 3.00
" Meteora	2.00@ 3.00
Carnations	.75@ 1.00
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Common ferns	.20
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" Bridesmaids, Testouts, Brides	.50@ 3.00
" Morgans, Meteors	2.00@ 6.00
Carnations	.50@ .75
Lily of the valley	1.00@ 2.00
Sweet peas, per 100 bunches	.75@1.00
Smilax	8.00@10.00
Asparagus	40.00@50.00
Cattleyas	25.00@40.00
Asters	.25@ .40

BOSTON, Aug. 24.

Roses, Beauties	5.00@25.00
" Morgans, Meteors	2.00@ 4.00
" Brides, Bridesmaids	1.00@ 4.00
Carnations	.50@ .75
Lily of the valley	2.00@ 3.00
Sweet peas	.10@ .15
Smilax	10.00@12.00
Asparagus	50.00
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Asters	.40@ .50

PHILADELPHIA, Aug. 24.

Roses, Beauties	3.00@12.00
" Brides, Bridesmaids	2.00@ 4.00
" Kaiserins, Meteors	2.00@ 6.00
Carnations	.50@ 2.00
Lily of the valley, gladioli	2.00@ 4.00
Japanese lilies	4.00@ 6.00
Sweet peas	.15@ .25
Cattleyas	35.00@40.00
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WISCONSIN pea growers report a probable shortage at Manitowoc of from 25 to 30 per cent.

J. COMONT, representing James Carter Dunnett & Beale, of London, is making his fall trip through the United States.

IT is reported that Messrs. Goode & Reese have sold *How to Grow Flowers* to Mr. Thomas, recently business manager of that paper.

THE Illinois Seed Co., which recently suffered a considerable loss by fire, has completed the extensive repairs necessitated by the conflagration.

AT Waterloo, Neb., a grower estimates that the very severe hot winds of August 18, 19, and 20, have injured the vine seed crops from 25 to 40 per cent.

Odense, Denmark.

Chr. F. Kintze, one of the oldest and best known florists of Copenhagen, died recently. He was one of the first growers of cauliflower seed and in 1860 the first to export it. He was president of the Gardeners' Aid Society.

Notwithstanding prolonged cold, wet and stormy weather, reports from several growers indicate that seed cauliflowers are doing well and give promise of a large crop. H. H.

The Harrisii Lily Disease.

In an official report dated July 13, Superintendent G. A. Bishop, of the public gardens of Bermuda, attributes the Harrisii lily disease to heavy manuring with farmyard manure, repetition of the crop upon the same ground, reduced vitality, bad selection of stock and in some cases insufficiency of plant food. These render the bulbs prone to attacks of fungi or soft rot. It is stated that when the fungi or rot has taken possession of the bulb its roots and base become rotten, after which it is liable to be attacked by the eucharis mite. Mr. Bishop is led to these conclusions by extensive investigations on the ground and he prescribes a course of treatment in the full belief that it will, in the course of a year or two, restore the lily industry to its former prosperity.

Bulb Growing in the Northwest.

A lot of about 10,000 young-brood bulbs of different varieties of single tulips were shipped a few days ago from one of the Chicago parks to Fairhaven, Wash., where they, together with nearly 3,000 of one, two and three year-old hyacinths and tulip bulbs, imported from Holland, will be planted out on trial fields at Fort Bellingham, Everson and Welcome in Whatcom county. The culture of Holland bulbs in the above named region of western Washington has some time ago passed the point where further experimenting becomes necessary, as is fully proven by the pronounced success achieved during the past five years on the limited area of land devoted to the growing of hyacinths, tulips, crocuses, narcissi, lilies, gladioli, etc., by Geo. Gibbs on Orcas Island, C. F. Larrabee, of Fairhaven, and two other gentlemen—Messrs. Canfield and Bock, horticultural enthusiasts—who desire to locate these new trial fields at the points mentioned because the three Holland bulb growers who visited Whatcom county last May (W. Warnaar, L. Van Leeuwen and Harman C. Bartman) pointed out these localities during their brief stay as being especially favored with the right kind of soil for hyacinth growing, and because it is desired to convince the most skeptical that bulbs can be grown on the main land of Bellingham Bay just as perfect and in every way equal to the best imported bulbs.

ANDREAS SIMON.

Cleveland.

NO SURPLUS OF STOCK, ALTHOUGH TRADE HAS NOT YET LEFT THE SUMMER RUT.—NOTES AND COMMENT.

Business continues in the old rut. There is no scarcity of flowers, although outside of asters, carnations and gladioli not many are offered. Roses are improving somewhat, although continued weather such as we are experiencing will undoubtedly affect them unfavorably. The temperature for several days has been hovering about the ninety mark, with an occasional spurt above that point. Asters are about the usual quality, some few disbudded Semple's strain being seen.

James Eadie's store, now in process of being remodeled, will soon be finished. When done it promises to be about the handsomest in town.

The Omaha delegation has returned and speak highly in praise of their entertainment. They stopped over in Chicago both ways and on their return took a little side trip up to Milwaukee. A.

Jackson, Miss.

The popularity of the chrysanthemum promises to occasion the establishing of a new industry here. Some very fine specimens grown in private gardens have caused several parties to experiment with them for commercial purposes. Close at hand there are two immense gardens of chrysanthemums, one of five hundred magnificent specimens owned by W. J. Brown, Jr., and the other covering an entire acre of ground containing fifteen hundred plants, owned by Messrs. William Hemingway and A. D. Galloway. These latter gentlemen have in their garden forty-two distinct varieties and all of the various colors so much in favor in the north. Offers already made seem to assure financial success.

GORDON, NEB.—L. Jones has effected an exchange whereby he comes into possession of the Chas. May greenhouses.

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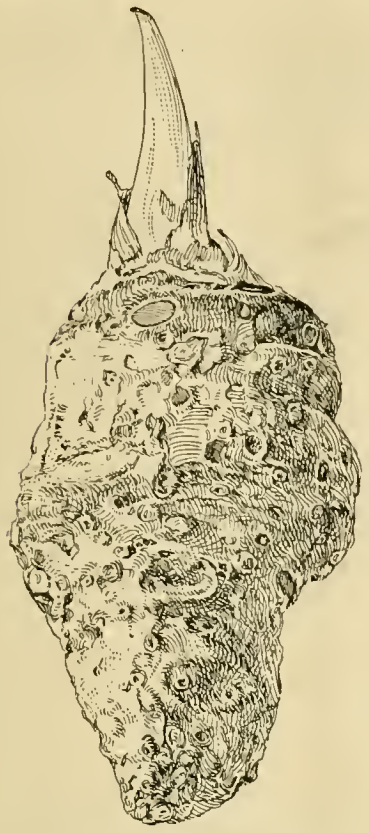
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A. L. BROOKE, Pres.; E. ALBERTSON Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

H. G. BRYANT, of the nursery firm of A. Bryant & Sons, Princeton, Ill., has been vacationing in South Dakota.

SAN DIEGO, CAL.—J. W. Huggins, a pioneer fruit grower, died at the age of seventy-two years. He left a large estate.

VICKSBURG, MICH.—The Vicksburg Nursery Company has begun its annual harvest of moss on its marsh at Portage. The crop will be larger than usual.

KALAMAZOO, MICH.—The Central Michigan Nursery Company is making a number of improvements to its plant, principal among which is a packing house and cold storage cellar 40x125.

CHARLESTON, ILL.—James Faris, who was born in Kentucky in 1808, died here in his ninety-first year, after a life spent in the nursery business. He leaves four children and many broad acres of land.

WILMINGTON, DEL.—Jacob L. Brown established the Roseland Garden and Nursery forty years ago and has enjoyed this year the best trade in his record of four decades. Mr. Brown expects much from the approaching season.

PAINESVILLE, OHIO.—The Storrs & Harrison Company has just completed another range of twelve greenhouses, each 22x100 feet, at a cost of about $10,000. The material was furnished by the Lockland Lumber Co. The houses will be mostly devoted to the growing of young H. P. roses.

Some Carolina Plants.

North Carolina has, from times unknown, enjoyed the distinction of being natural home of the greatest percentage of all the woody and herbaceous plants North America produces. This fact has been acknowledged long ago by planters and florists who are drawing freely upon its resources for their work, depending, however, so far especially, upon the western part of the state. So it happens that the central and eastern sections have been left in almost virgin condition. Under the shade of the longleaf pines, in the sandy loam and the muck of the creeks there are flourishing, however, many floral gems which have to be known, only, to be appreciated, and which will prove a boon to the florist and landscape gardener. My space here being limited I shall enumerate only a few of them at present.

Clitoria Mariana (butterfly pea) is a climbing or trailing representative of the pulse family. It has large, glossy trifoliate leaves out of the axils of which the large dainty light blue flowers appear in spring and will last through the whole summer. Galactia glabella (milk pea) is another climbing member of the same family. Its foliage is smaller but equally glossy as that of the above. In July the whole plant will be fairly covered with bright red blossoms. This very graceful climber of about four feet in height makes a splendid show when in bloom. It ought to be very valuable for many decorative purposes. Jatropha stimulosa (spurge nettle) will be found very useful in landscape work. It has beautifully shaped and tinted leaves and produces flowers of the richest cream color all through the summer. Its only drawback is that the plant does not bear much handling on account of its stinging properties. Its roots are of a very peculiar cylindrical shape, about twelve inches in length and are said to be of good taste.

Lupinus diffusus (deer cabbage) cannot be overestimated for its soil-binding and ornamental qualities. It forms large tufts one to two feet in diameter, has silvery white, downy foliage and sends forth its masses of flower trusses of light blue or sometimes pinkish color in April and May. A field of L. diffusus in bloom offers a splendid sight. The cut flowers will remain fresh for quite a while. Who has not heard of the lovely pyxie, Pyxidanthera barbulata? Quite closely resembling a moss during the balance of the year, in early spring it is completly covered with innumerable tiny pinkish daintily fragrant biossoms which endear the plant to everybody. It succeeds best in very moist ground, being found originally along the edges of our creeks. Zygadenus glaberrimus is a very stately and grand representative of the lily family. Its large flowers are o a creamy yellow color and appear in July upon spikes from four to six feet in height. They last a long time whether cut or left on the plant and are very valuable for many decorative purposes.

OTTO KATZENSTEIN.

BRIDGETON, N. Y.—Aubrey Grace has engaged with Edwards Bros., to learn the florist business.

SKOWHEGAN, ME.—C. E. Leighton is now nicely installed in his new greenhouses on the east side of the city and has a very neat establishment.

DUBUQUE, IA.—W. A. Harkett, of Harkett's Floral Nursery, has returned from a trip to Omaha where he made a study of the floral features of the exposition and attended the S. A. F. convention.

CHAMPAIGN, ILL.—J. E. Yeats has returned from Omaha where he exhibited his new invention, an alarm attachment for greenhouse heating pipes, at the convention of the Society of American Florists.

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Catalpa Speciosa, Norway Maple, Sycamore Maple, Wier's Cut Leaf Maple, Silver Maple, Scotch Elm, Huntington Elm, English Elm and American Elm, 3 to 4-inch caliper, $4 00 each, $35.00 per dozen, f. o. b. Rochester.

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HARDY

Herbaceous Perennials

THE MOST COMPLETE STOCK IN AMERICA.

PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

JACOB W. MANNING,

The Reading Nursery, READING, MASS.

ESTABLISHED 1854

PINEHURST NURSERIES.

PINEHURST, N. C.

COLLECTED

Rare NORTH CAROLINA Woody and Herbaceous SEEDS

A SPECIALTY.

ASK FOR LIST AND DISCOUNTS.

FOR FALL '98 AND SPRING '99 DELIVERY

A SPLENDID ASSORTMENT OF

FIELD-GROWN HARDY ROSES

Clematis, Ornamental Shrubs and Trees, Pæonies, Herbaceous Plants, Small Fruits, Fruit Trees.

Special quotations gladly submitted by letter.

Jackson & Perkins Co. Newark, New York.

HARDY SHRUBS

Assorted in 25 Varieties.

My selection $50 per 1000. Descriptive catalogue and price lists for the trade.

SAMUEL C. MOON,

MORRISVILLE, - Bucks Co., PA.

OUR SPECIALTIES ARE

Azaleas, Roses, Rhododendrons

New and rare hardy plants for forcing. Novelties in Ferns (raised by the largest London grower). The newest and best varieties of roses, H. P. and Tea scented, from a French raiser. Write us and ask for quotations. We import direct to Boston to meet the demand from Canada and New England States.

F. Brunton & Co. IMPORTERS & EXPORTERS OF NEW AND RARE PLANTS.

136 Boylston St., BOSTON, MASS.

It is good business policy to mention the

....AMERICAN FLORIST

when you write to an advertiser.

Comment Concerning California.

I have just returned from my trip to the Pacific coast where I enjoyed myself very much and feasted on fruits and flowers to my heart's content. California has had an exceptionally dry season, but the flowers are blooming in great profusion and fruit seems to be abundant.

I called on A. W. Thompson, who has a large fruit ranch three miles west of Petaluma in Sonoma county. Mr. Thompson has several thousand apple, pear, plum, peach and cherry trees and says that apples and pears are the most profitable fruits to grow, especially in that locality. He is selling his pears at $20 per ton. His summer apples, the Gravensteins, are just ready for market and bring $40 per ton, while the Alexander only brings about $30 per ton. Spitzenberg, Yellow Newton, Pippins, Sonoma Seedling, Greenings, Bellflower and other fall and winter varieties are in good demand at about $40 per ton. He thinks his Bartlett pears will yield him fully 500 pounds per tree and he has about 2,000 trees. They call this an off year on account of drought and late frosts. That vicinity is greatly troubled with the apple worm or codling moth and Mr. Thompson says that it would be worth hundreds of dollars annually to that vicinity if they could find something that would effectually destroy them. They have used salt lime, sulphur solution and Paris green, all without the desired effect.

Cherries and plums have not paid for picking this year. I saw both fruits so thick on the ground that I could not take a step in the orchards without stepping on them and in places the plums were four and five deep so that one could have shoveled them up by the carload.

I visited Mr. Burbank, at Santa Rosa, and found the most interesting man that I met on the Pacific coast. He is to fruits and flowers what Edison is to electricity and his new plum is one of the most delicious that I ever tasted. His yellow calla lily is a beauty and he showed me a pure white tigrida, also a double marguerite and many other new things which were truly wonderful.

I called at the Lemmon Herbarium and found Professor Lemmon a very courteous and instructive gentleman. I passed a very pleasant evening among the pine cones of the west, for his rooms are covered with every variety of cone known and I brought away from his place a bulb of Lilium rubescens a very rare and beautiful plant. E. E. KENNICOTT.

UMBRELLA PLANTS

Fine 2½-inch plants, $2 50 per 100.

SONNENSCHMIDT & JUNGE,

456 E. Washington St., INDIANAPOLIS, IND.

Just Arrived!

We have just received a fine lot of fresh seeds of

PANDANUS UTILIS.....$6.00 per 1000.

Last chance for our JARDINIERE FERNS in 2¼-inch pots.

SIEBRECHT & SON, NEW ROCHELLE, N. Y.

CINERARIA PLANTS.

Ready for 3-inch pots. The finest colored, large flowering dwarf varieties, mixed None better. Per 100, $2.50. Extras added to help pay express

JOHN F. RUPP, Shiremanstown, Pa.

ARAUCARIA EXCELSA!

(Norfolk Island Pine)

We have an unusually large stock of fine plants of this beautiful decorative plant, especially of the small and medium sizes, for which the demand is always certain.

4-inch pots.	6 to 8 inches high.	2 to 3 tiers		$0.60 each.
5 " "	10 to 12 "	" 3 "		1.00 "
5 " "	15 "	" 3 to 4 "		1.25 "
6 " "	16 to 18 "	" 4 to 5 "		1 50 "

ARAUCARIA EXCELSA GLAUCA.

5-inch pots.	8 inches high.	2 tiers	$1 00 each.
6 " "	12 to 15 "	" 3 "	1.50 "

ARAUCARIA ROBUSTA COMPACTA.

The finest lot of this grand variety we have ever been able to offer.

6-inch pots.	10 to 12 inches high.	3 tiers	$1.50 each.
6 " "	12 to 14 "	" 3 "	1 75 "
7 " "	15 to 16 "	" 3 "	2 00 "

For other decorative stock see our current trade list.

HENRY A. DREER, 714 CHESTNUT STREET, **PHILA., PA.**

ASPARAGUS

50,000 plants in 2½-inch pots, $5.00 per 100, Xpress; 24 for $1.50 by mail.....

Specimens for 8-inch pots, $6 per 12.

A. BLANC & CO. PHILADELPHIA. **SPRENGERI.**

REX BEGONIA

	Per 100
34 Named Varieties, 2-inch pots	$8.00
34 " " Rooted Cuttings,	4.00
Mixed " " "	2.00
" " 2-inch pots	4.00

Write for prices on other stock. Terms Cash or C. O. D.

GREENE & UNDERHILL

WATERTOWN, N. Y.

FERNS FERNS

100,000 Commercial Ferns in the best varieties out of 2-in. pots, grown in cool houses and well-aired. No better stock offered at double the price; $2.50 per 100, $20.00 per 1000, $50.00 for 3000. Also a fine lot of the LEADING CARNATIONS for sale, $3.00 to $5.00 per 100.

E. HIPPARD, - Youngstown, Ohio.

Orchids!

IMPORTED and Established Stock of A-1 quality always on hand. Also a complete line of best **Cherrywood Baskets, Fresh Moss and Peat, etc.**

LAGER & HURRELL, SUMMIT, N. J.

FERNS

PTERIS TREMULA, strong, ready to shift, to 4s, $3.50 per 100 $30.00 per 1000

N. EXALTATA (Sword Fern).....$4.00 per 100
N. EXALTATA Bostoniensis.....$5.00 per 100
N. CORDATA.....$6.00 per 100
N. DAVALLIOIDES Furcans.....$10.00 per 100

Address **R. WITTERSTAETTER, Sedamsville, O.**

Rex Begonias.

Our stock of Rex Begonias is the most complete in the country. Many varieties. Order to-day.

Nice 2-inch stock, $4 per 100; $30 per 1000.

G. R. GAUSE & CO., Richmond, Ind.

E. G. HILL & CO.,

RICHMOND, INDIANA.

Cycas Revoluta Stems

Popular sizes, 3 to 6 lbs each.....10 cts. per lb.

Please Mention the American Florist.

PALMS and FERNS



The Largest Stock of PLANTS IN THE WEST

GEO Wittbold 1708 N. HALSTED ST CHICAGO

EXTRA HEAVY Clean Stock!

Kentia Belmoreana

6-in., 5 to 7 leaves.....$15 to $24 per dozen.
5-in., 5 to 6 leaves..... 12 "

Kentia Fosteriana

6-in., 5 to 6 leaves.....$12 to $18 per dozen.
5-in., 4 to 5 leaves..... 9 to 12 "

FIELD GROWN CARNATIONS...

A fine lot will be ready for Sept. delivery.

THE COTTAGE GARDENS

QUEENS, N. Y.

PALM Seed. FRESH ON HAND

All kinds of **PHOENIX SEEDS.**

A new shipment of **Kentia Belmoreana and Forsteriana** will arrive in a few weeks....

J. L. SCHILLER, 404 East 34th St., NEW YORK CITY.

Mention Am. Florist when writing.

ROBT. CRAIG & SON

Roses, Palms

and Novelties in Decorative Plants.

Market and 49th Street, PHILADELPHIA PA.

Please mention the American Florist

Reading, Pa.

Hoskins & Giles have consummated a deal whereby they take possession of the store and greenhouses on South Fifth street, formerly occupied by J. G. Brown. Their own place on Tenth street underwent some extensive improvements this summer and is now in the best of condition.

Mr. Hoskins is a man of very sound judgment, possessing the happy faculty of seeing things from a greater distance than is given to the average mortal; hence, when he takes a step, "onward" is the word that might, with safety, be passed all along the line. It is Mr. Hoskins' opinion that we are on the eve of a prosperous season. HOMO.

Houston, Texas.

Trade has been very good all the year. Of course the sale of plants is not much at this time, but the call for cut flowers, bouquets, wedding decorations and funeral designs is greater than usual. We are now preparing for our fall and winter trade, and as the war is ended we look forward to a good run of business.

Wm. Kutchbach is building another greenhouse 35x60 feet.

W. W. Westgate is engaged in the wholesale plant trade. N. E. W.

BURLINGTON, IA.—Jerome Bock has just completed two fine greenhouses 20x80 feet.

Rose Plants.

BRIDES, BRIDESMAIDS, METEORS AND PERLES.

Very strong and healthy. From 3-inch pots, $5.00 per 100; $45.00 per 1000.

Limited quantity, from 2½-inch, $3.00 per 100.

BROWN & CANFIELD,
SPRINGFIELD, ILL.

ROSES.

AMERICAN BEAUTY, strong, clean and healthy plants, from 4-inch pots at $10 per 100; $75 per 1000.

SMILAX, strong, 4-inch, at $3 per 100. Cash with order.

JOHN B. GOETZ,
2165 Mack naw St., SAGINAW. W. S., MICH.

GOLDEN GATE Rose Plants.

SELECTED STOCK.

3 and 4-inch pots, $25.00 per hundred.

For Cash or in Exchange.

American Rose Co., Washington, D. C.

ROSES. ROSES.

No finer grown. Big bushy plants, full of flowering shoots, out of 3 and 3½-inch pots, at $3.00 per 100. Meteors, Brides, Bridesmaids, Perles and Beauties. This stock is cheap at twice the price, but must be sold at once to make room.

SMILAX PLANTS, 2-inch pots, full of roots and covered with plant—no finer to be had—at the lowest price ever quoted. 75c per 100; $5 00 per 1000.

SOUTH SIDE FLORAL CO., Springfield, Ill.

CANNAS—Rambler Roses

From field for Fall delivery.

Also **30,000 SPIRÆA ANTHONY WATERER. 40,000 LOCAN BERRY TIPS.**

The Conard & Jones Co., WEST GROVE, PA.

ROSE PLANTS! OUT OF 2½ INCH POTS

AMERICAN BEAUTIES	$5.00 per 100.	$45.00 per 1000.
METEORS	3.00 per 100.	25.00 per 1000.

Wietor Bros., Successors to... ROGERS PARK FLORAL CO.

Wholesale Growers of CUT FLOWERS ROSE PLANTS...

51 WABASH AVENUE, ...CHICAGO...

40,000 FIRST QUALITY FORCING ROSES. READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

AMERICAN BEAUTY	LA FRANCE		PRESIDENT CARNOT
	3-inch pots, $8.00 per 100.	4-inch pots, $12.00 per 100.	
METEOR	KAISERIN	SUNSET	BON SILENE
PERLE	MME. HOSTE	NIPHETOS	BRIDE
BELLE SIEBRECHT.	3-inch pots, $7.00 per 100.	4-inch pots, $10.00 per 1000.	

J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphetos, Kaiserin, 3 and 4-inch.

Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted.

A. S. MacBEAN, Lakewood, N. J.

ROSES

Maids, Brides, Perles and Meteors, in 4-inch pots, $8.00 per 100.

Kaiserin, Perles, Meteors, Maids and Brides, in 3-inch pots, $6.00 per 100.

VIOLETS, Marie Louise, in 2½-in. pot, $3.00 per 100.

BEGONIA REX in 4-in. pots.....$20.00 per 100.

All of the stock is in fine healthy condition.

WM. F. KASTING, - Buffalo, N. Y.

SEE THESE PRICES!

Splendid 3-in stock, worth nearly twice the money. All in fine growth.

	Per 100
BRIDES AND MAIDS	$3.50
METEORS	3.00
PERLES	4.50
PERLES—Extra Good	5.00
BEAUTIES	4.50

This stock will certainly please and make you money.

W. H. GULLETT & SONS. Rose Growers, Lincoln, Ill.

ROSES! ROSES!

Brides and Meteors from 2-inch, $3.00 per 100; $25.00 per 1000.

Kaiserin and Meteors, from 3-inch, $5.00 per 100; $45.00 per 1000.

Am. Beauties from 3-in., $5.50 per 100; $50 per 1000. 50 at 100 and 500 at 1000 rates. Cash with order.

ROBERT F. TESSON,
West Forest Park, - St. Louis, Mo.

FORCING ROSES

	2½-in. Per 100	Per 1000	3½-in. Per 100
BRIDE	$2 50	$22.50	$
BRIDESMAID	2.50	22.50	
METEOR	2.50	22.50	4.00

White, Pink and Yellow Ramblers, same. Mooovines $20.00; Altercaotheras $18.00 per 1000.

THE NATIONAL PLANT CO., Dayton, Ohio.

AMERICAN BEAUTY

Fine young plants, healthy and strong. 3-inch pots, $10.00 per 100; $90.00 per 1000.

EDWIN LONSDALE,
Wyndmoor, Chestnut Hill,
Cash with order. PHILADELPHIA, PA.
Money Order Office, Station H, Phila.

ROSE PLANTS Per 100

5000	AMERICAN BEAUTIES,	3-inch, $4.00
150	PERLE	3-inch, 4.00
700	BRIDESMAIDS	3-inch, 3.00
1400	METEORS	2½-in., 2.00

Fine, healthy stock; good size.

FIRST COME, FIRST SERVED.

A. G. PRINCE & CO.,
88 and 90 Wabash Ave., CHICAGO.

IT IS GOOD BUSINESS POLICY TO MENTION THE AMERICAN FLORIST WHEN YOU WRITE TO AN ADVERTISER.

FORCING ROSES....

FIRST-CLASS, CLEAN, HEALTHY STOCK.

We claim **GOOD VALUE** at these prices. Send for samples.

	2½-in. per 100	3½-in. per 100
American Beauty	$6.00	$12.00
Papa Gontier	4.00	10.00
Pres. Carnot	4.00	10.00
La France	4.00	10.00
Mlle. Helena Cambier	4.00	10.00
Kaiserin A. Victoria		9.00
Perle des Jardins	3.50	9.00
Brides	3.00	8.00
Bridesmaids	3.00	8.00
Meteors	3.00	8.00
Clothilde Soupert	3.00	8.00
Mosella	3.00	8.00

Asparagus Sprengeri, 2-in. pots, strong	per 100, $5 00
Asparagus Plumosus, 2½-in. pots, fine stock	" 7.00
Boston Fern 2½-in.	" 6 00
Neohrolepis Exaltata, 4-in.	" 15 00
Ferns in assortment, 2½-in.	" 4.00
Araucaria Excelsa, 6-in. pots, 15-18-in. high	@ $1 50 each
Cocos Weddelliana, 3-in pots	@ $2 50 per doz.

Keotias, Arecas, Latanias, etc., large quantities in all sizes. Write for Special Prices, on sizes you want.

VAUGHAN'S SEED STORE,

Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

ROSES Brides Bridesmaid ...Perles

3-inch Pots, $4.00 per 100.

200 Grafted Bridesmaid

4-inch Pots, $10.00 per 100.

S. J. REUTER,
WESTERLY, R. I.

ROSES

100 AM BEAUTY, 3½-in.	$5.00 per 100
BRIDESMAIDS, 3½-in.	3.50 per 100
METEORS, 3½-in.	3.50 per 100

Very choice; grown for our own use. May be returned at our expense if not satisfactory.

BRANT & NOE—Gentlemen: DALLAS, TEXAS.
We are greatly pleased with rose plants received.
Yours, etc., TEXAS SEED & FLORAL CO.

BRANT & NOE, - Forest Glen, Ill.



Ready!

We have the following stock now ready for delivery and QUALITIES are SUPERFINE. Prices right.

ROMAN HYACINTHS, NARCISSUS Paper White Grandiflora, FREESIA REFRACTA ALBA, All Grades; ALBIUM NEAPOLITANUM; LILIUM HARRISII And LILIUM LONGIFLORUM, 5 to 7-In.

To ARRIVE SOON

CALLA AETHIOPICA
ALL SIZES.
DUTCH HYACINTHS, TULIPS, ETC.,
(JAPAN GROWN) LILIUM LONGIFLORUM.

These will be grown largely the coming season as a substitute for LILIUM HARRISII.

WE ARE HEADQUARTERS FOR THEM—ALL SIZES.

VAUGHAN'S SEED STORE,

NEW YORK, 14 Barclay St. CHICAGO, 84-86 Randolph St.

LILIUM HARRISII

5 to 7 size.....$4.25 per 100
7 to 9 size..... 8.00 per 100
Extra Fine Stock.

Roman Hyacinths, Paper White Narcissus, etc. READY NOW.

W. W. Barnard & Co.
161-163 Kinzie St., - CHICAGO.

JOSEPH HEACOCK

WYNCOTE, PHILA., PA.

—GROWER OF—

ARECA LUTESCENS,
COCOS WEDDELIANA,
KENTIA BELMOREANA,
LATANIA BORBONICA.

ASTILBE CHINENSIS (Spiraea)

First-Class Certificate Mass. Hort. Society.....
Three sizes, fine stock. $20, $15, $10 per 100.

We recommend September and October planting for..... HARDY HERBACEOUS PERENNIALS
IN VARIETY.
Price list and descriptive catalogue on application.

REA BROTHERS, Norwood, Mass.

CARNATIONS

H. WEBER & SONS,
Oakland, - Md.

We like to have you tell our advertisers that you read our paper.

FREESIAS.

We have nearly a half million fine Flowering Bulbs, and are prepared to fill all EARLY orders promptly. We guarantee FULL count, FULL size thoroughly cured Bulbs, ABSOLUTELY FREE from disease.

We do not quote such unknown sizes as "Mammoth," "Select." 1st size, etc., etc, but give actual measurement, so you may know what to expect.

Price including free delivery anywhere in U. S. A.:

¼ to ⅜ inch	$2.50 per 1000
⅜ to ½ "	3.50 per 1000
½ to ¾ "	5 00 per 1000
¾ to 1 "	9 00 per 1000

Order To-day Direct from the Growers,
C. A. BRAZEE & CO., Wilmington, Cal., U. S. A.

	Per 100	Per 1000
Lil. Harrisii, 5-7. first-class stock	$3.50	
Selected Freesias	.50	$3.50
PURE White Freesias, guaranteed flowering	.40	3.00

(Price on Freesias includes delivery).

Calla æthiopica, 3-5 inches	4.50
" " 4-6 "	6.00
" " 5-7 "	8.00
" " Mammoth	10.00

Pansy Seed, CHOICEST strain German and Scotch GIANTS, per pkt. 25 cts. Address
H. H. BERGER & CO., 220 Broadway, New York.

Dutch Bulbs

HYACINTHS, TULIPS, CROCUS, ETC.
RUDOLPH VAN TIL & CO.,
Hillegom, Holland.
American Representative
L. C. BOBBINK, Rutherford, N. J.
ASK FOR CATALOGUE.

BULBS

For FLORISTS.. For SEEDSMEN.

VAN ZANTEN BROTHERS,
HILLEGOM, - HOLLAND.

Mention the American Florist.

ASPIDISTRA

Lurida fol. var. just now in good condition without leaves, good roots with sprouts, $6 per 100; sample, 90c per doz. postpaid. Canna "Florida" for trial 10 cents.

Asparagus Sprengerii Seed.... { 100, $1.00
Fresh from the vines..... { 1000, 8.00

Pampas Grove Nurseries reenland P. O., Florida.

Mention the American Florist.

2000 RUBBER TREES, in perfect health; none better; 5½-in., $50 per 100. 6-in., $65 per 100; 70c each.
100,000 YOUNG LATANIAS, strong, $25 per 1000.
ARALIA SIEBOLDII, 5½-inch $25 per 100.
65,000 PALMS, in variety.
25,000 FERNS for dishes, 2½-inch, $2.50 per 100.
SWORD FERNS, 4½-inch, $12.50; 5½-inch, $35; 6-in. $50 per 100
[World's Fair Medal awarded on Palms.]

ALBERT FUCHS, 2059-73 N. Halsted St. CHICAGO.

Azaleas
Palms
Bay Trees
Araucarias

THE FINEST STOCK IN THE WORLD

SANDER,
BRUGES, BELGIUM.
AGENT:
A. DIMMOCK,
60 Vesey St., NEW YORK

Mention the American Florist.

A Suggestion.

Like every other popular family of plants, phloxes are being raised from seed and the seedlings sent out as new varities, whether or not they differ from those of previous years. Every season there are phloxes shown in Boston by different exhibitors that are identical in everything but the name. We are trying this year over 160 varieties, having the newest and most distinct sorts from several collections, and shall try to pick out the most worthy, but it is a hard job and cannot be done in one season. We expect to keep back twenty-five or thirty varieties for trial next season, planting those most alike next each other, and shall quite likely reduce these to twelve or fifteen kinds.

Pæonics are nearly, if not quite, as badly mixed as regards names, and each season the differences in the new varieties are becoming less and less. Now that these two families are regaining their popularity we would suggest a similar trial for them, as was given the perennial asters, narcissi, etc., in England. Some central locality could be fixed on, to which plants of all varieties of these two families could be sent from all nurseries and private gardens where large collections are grown. One or more years could be given to each family, or each family could be tried in a different locality. The experiment stations could, perhaps, be made available. These trial collections would, we feel sure, be of great use and interest to many, and help to make the two families more popular. Other families could be tried as it became needful. R. N.

Massachusetts.

TOPEKA, KAS.—Prof. E. M. Shelton, who for nine years has conducted a government school of horticulture at Brisbane, Australia, is soon to return home.

CHINOOK, MONT.—Al. Harrison, of the Sweet Grass country, is the pioneer of a new industry in this region. He has shipped two cars of sheep manure to a Boston florist firm and has orders for several cars more.

CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3-inch pots. Acknowledged by florists as the finest strain of Primroses to be had. Single vars in finest named colors, $2.50 per 100, $20.00 per 1000; double white, red and rose, $4.00 per 100. Extra plants added to help pay expressage. Adams and U. S. Express. Cash with order, or one-half cash and balance C. O. D.

JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.

CHOICE VIOLET STOCK!

Violets from 2½-in. pots, A-1 condition. Farquhar, Marie Louise and Lady Campbell, $3.00 per 100; $25.00 per 1000.

ROSES Brides and Maids, in 3-in. pots.....$4.00 per 100.

CRABB & HUNTER, Grand Rapids, Mich.

SMILAX!

Fine stock, ready to run soon as planted, winter sown and several times headed back, 2½-inch pots. $2.50 per 100.

Bougainvillea G Sanderiana, 3-in. pots, $1.50 per doz.; $10.00 per 100.

ROSES, Bride and Bridesmaid, 3½-in. pots, $5 per 100

Cyperus Alternifolius, 2½-in. pots.....$2.50 per 100

Grevillea Robusta, 2¼-in. pots..... 2.50 per 100

NATHAN SMITH & SON, Adrian, Mich.

CARNATIONS, McGowan, etc. GERANIUMS, Nutt and Favorite. VINCA Major Variegata. All strong field-grown plants in perfect health. 75c per dozen, $5 per 100. CANNAS, varieties and prices on application.

INSALL & LEADBETTER, Moorestown, N. J.

EXTRA FINE CARNATIONS

WHY YOU SHOULD BUY YOUR PLANTS OF US:

1st. Because your order will be filled immediately.
2nd. Because our plants make a great mass of fibrous roots which enable them to stand long shipment well and to start at once when planted.
3rd. Because our plants are healthy and we grow the best varieties.

Send for prices..... GEO. HANCOCK & SON, GRAND HAVEN, MICH.

FIELD-GROWN Carnation Plants

STOCK READY SEPT. 1st.

A good season has put our field-grown stock for Fall planting in excellent condition; clean, healthy and strong. The condition of our ground is such to insure the lifting of a plant with little or no loss of roots. Send for Price List.

F. Dorner & Sons Co.
LA FAYETTE, IND.

CARNATIONS NOW READY

EXTRA FINE FIELD-GROWN PLANTS.

	Per 100
Mrs. S. A. Northway	$10.00
Alba Superba	12.00
Evelina	12.00
Cold Nugget	12.00
White Cloud	12.00
Flora Hill	6.00
Jubilee	8.00
Lizzie McGowan	4.00
William Scott	4.00
Daybreak	7.00
Victor	8.00
Tidal Wave	6.00
Morello	6.00

VAUGHAN'S SEED STORE
Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

CARNATIONS FIELD-GROWN

Ready September 1st and later.

2000 Lizzie McGowan	500 Silver Spray
500 Ivory	1000 Wm. Scott
500 Morello	300 Emily Pierson
500 Daybreak	200 Goldfinch

If you want any field-grown plants this fall write me before you buy and get prices on this lot. Address

Chas. Chadwick, Lock Box II, Grand Rapids, Mich.

2000 Smilax

First-class 3-inch stock, $2.50 per 100; $20 per 1000.

THE E. HIPPARD CO.,
.....YOUNGSTOWN, OHIO.

SURPLUS STOCK!

Must be sold to make room, all fine healthy stock.

SMILAX, 2-in. pots at..... $5.00 per 1000
CYPERUS ALT., 2½ and 3-in. at.... 2.50 " 100
SWORD FERNS... 3-in., $5; 4-in., $8; 5-in., $15.

WILLIAMS & SONS CO., Batavia, Ill.

Geranium "MARS"

STOCK PLANTS, FIELD GROWN, READY NOW....

$1.50, $2.25, $3.00 per doz.; $15.00 per 100. Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

Good Smilax to make room. 12½ cents per full string. Express prepaid..... Orders filled on short notice. Cash with order, please.

HENRY C. SCHWIEMANN, Danvers, Ill.

Large, Healthy, Field-Grown

CARNATIONS

of the following varieties:

McGOWAN, FELLOW'S RED, SCOTT, ROSE QUEEN, BRIDESMAID and ELDORADO.

$5.00 per 100; $40.00 per 1000.

Fine assortment of extra strong FERNS, $4.00 per 100.

Fine large SMILAX PLANTS, from 3½-in. pots, $3.00 per 100; $25.00 per 1000.

PRIMULA OBCONICA, from 3½-inch pots, at $3.00 per 100.

Large field-grown DRACAENAS, 3 years old. $10.00 per 100.

SWAINSONIA PLANTS, from 3½-inch pots, at $6.00 per 100.

JAMES HORAN & SON,
BRIDGEPORT, CONN.

CARNATIONS

Strong, field-grown plants, and FREE from rust.

250 Armazindy, 3000 McGowan, 3000 Alaska, 1200 Wm. Scott, 200 Helen Keller	$4.00 per 100.
75 Hector, 100 McBurney, 400 Pingree	$5.00 per 100.
500 Jubilee	$8.00 per 100.

SOUTH PARK FLORAL CO.,
NEW CASTLE, IND.

CARNATIONS

PINGREE
ARMAZINDY
AND TRIUMPH

Field-grown. Ready now. Write for prices.

GEO. A. KUHL, Pekin, Ill.

Coleus Klondike

	Per 100
Rooted cuttings ready	$1.50
Asparagus plumosus, 2½-inch	5.00
" Sprengerii, 2½-inch	6.00
Cyperus (Umbrella Plant), 2½-inch	2.50
" " " 3-inch	3.00
Geranium S. A. Nutt, 3½-inch	3.00
" Mme. Bruant, 3½-inch	4.00
" 50 other varieties, new and old, $2 to 6.00	

Stock A No. 1. Cash please. For other stock see Convention Number.

CARL HAGENBURGER, West Mentor, O.

SPECIALTIES IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N.Y.

50,000 FIELD-GROWN CALIFORNIA VIOLET Plants for sale. $5.00 per 1000. Cash with order.

WOLF & CO., Savannah, Ga.



NEW CROP PANSY!

VAUGHAN'S "INTERNATIONAL"

Received the only reward for Mixed Pansies at the World's Fair. It is today better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. **Price, per oz., $10; 1-2 oz., $5; 1-8 oz., $1.50; trade pkt., 50 cts. (less 10 per cent for cash.)**

VAUGHAN'S "GIANT MIXTURE"

This mixture is specially made up by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had in any other way. If your trade demands large flowers there is no better mixture. **Price, per oz., $4.00; 1-4 oz., $1.25, 1-8 oz., 70 cts., large trade pkt., 50 cts.**

GIANT TRIMARDEAU, Mixed, oz., $1.00; ¼-oz., 30c; pkt., 10c.
"CHICAGO PARKS BEDDING" MIXTURE, oz., $1.00; ¼ oz., 30c; pkt., 10c.
Separate Colors—For price of these see Special Pansy Seed Circular, sent on application.

VAUGHAN'S SEED STORE,
14 BARCLAY ST., NEW YORK. 84-86 RANDOLPH ST., CHICAGO.

X PANSY X SEED

The finest of all the Giant flowering varieties to be had. No better grown; carefully selected; very large flowers, of perfect form and choice colors. All my florist customers praise this strain very highly; requires no better evidence of superiority. Every florist should be sure to sow of it this season. Per trade pkt. of 3500 seeds, $1.00; half pkt., 50c A pkt. New Forget-Me-Not, "Jewel," with every order.

JOHN F. RUPP, Shiremanstown, Pa.

PANSY SEED

Large Flowering.

Do you want to grow the finest Pansies, if so, buy the JENNINGS STRAIN.
Always reliable None better. Very finest mixed, $1.00 per pkt. of 2500 seeds; $6.00 per ounce. White, yellow, black, blue, red, pink and lavender in separate colors, $1.00 per pkt. The above all grown from very finest stock. Cash with order.

E. B. JENNINGS, L. B. 254, Southport, Conn.
Grower of the Finest Pansies.

John!

THE PANSY MAN

THAT'S WHAT THEY CALL ME.

Fresh seed now ready J. B.'s Challenge is all that the word implies. TRY IT! Good percentage of light colors. Large trade pkt., $1.00 cash.

Plants Ready Sept. 15th.

JOHN BEIMFORD, WILTON JUNCTION, IOWA.

PANSY SEED.

STRICTLY FRESH.

French and German crops, oz $7.50; ½ oz. $3 75; ¼ oz. $2.00; pkt. $1.00.

BEDDING PANSIES, per oz. $4.00; pkt. 50c.

J. L. SCHILLER,
404 East 34th Street NEW YORK.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at $1.00 each.

M. B. FAXON,
Lock Box 1528. BOSTON, MASS.
Correspondence solicited.

Pansies Worth Raising.

EXCELLENT SEED.

3-16 oz. $1.00; 1 oz. $4.00; up in 8 to 10 days, if properly treated.

FINE STOCKY PLANTS, $4 00 per 1000. f. o. b. express. CASH WITH ORDER.

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Do the American Florist a small favor. Mention the paper when writing advertisers.

Herr's Pansies!

BUY THE BEST. Seed at $1.50 per ¼ oz. Plants. 75c per 100; $4 per 1000.

SMILAX Fine plants from pots at 75c per 100; $5.00 per 1000. . . . Sample plants for 10c.

ALBERT M. HERR, = Lancaster, Pa.

ROEMER'S Superb Prize Pansies

The finest strain of Pansies in the World.

INTRODUCER AND GROWER OF ALL THE LEADING NOVELTIES.

Highest Award Inter. Exhibition at Hamburg, 1897. Catalogue free on application.

Fred. Roemer,
Seed Grower, - QUEDLINBURG, GERMANY.

CHINESE

PRIMROSES!

15,000 Strong 2-inch Pots, $2.00 per 100.

CINERARIA, 2-inch pots, $2.00 per 100.

PANSY SEED ½-oz., $2. Oz., $3.50.

PLANTS, $3.50 per 1000, Sept. 1st.
CASH WITH ORDER.

JOS. H. CUNNINGHAM,
DELAWARE, O.

SEED! **PANSIES** SEED!

Roemer's Superb Prize Pansies, improved strain, new crop, ready now This new mixture is saved from the very finest selected plants from all leading novelties of art colors, without doubt the finest strain in the market to-day. Mixed, per pkt. of 3000 seeds. $1.00; ¼ oz., $1 50; ½ oz., $2.75; 1 oz., $5.00. White, yellow, black and blue, in separate colors, $1.00 per pkt. of 3000 seeds.

CASH WITH ORDER.

PETER BROWN, - Lancaster, Pa.
Grower of Extra Fine Pansies.
Plants ready Sept. 15th.

New Pansy Seed.

	Trade pkt.	1 oz.
Mitting's giant flowering	50c	$4.00
English, finest mixed	25c	2.00
French, " "	25c	2.00
Bugnot, " "	50c	4.00
Boucharlat	35c	3.00
Odier	35c	3.00
Cassiers	35c	3.00
Trimardeau, mixed	35c	3.00
" Parisian, large strained	35c	4.00
Lord Beaconsfield	25c	2.00
Striata Grandiflora	30c	2.50
Caodidissima	30c	2.50
Faust	25c	2.50
German, large mixed, ¼ oz. at 1 oz. rates	30c	2.50

PANSY PLANTS.—Mitting's giant flowering in bud and bloom, 50 cents per 100; $5.00 per 1000.

CARNATION PLANTS.

Flora Hill, Mayor Pingree and C. A. Dana at $6.00 per 100; fine stock. Triumph and Armazindy at $5.00 per 100.

FLOWERING BEGONIAS in 10 varieties, 2¼-inch, $2.00.

THE MORRIS FLORAL CO.
Morris, Ill.

Zirngiebel's Giant Market and Fancy

PANSIES.

The leading strains to date, in trade packages at One Dollar each.

PLANTS of the above strains after Sept. 1st. Giant Market, $5.00 per 1000; Fancy strains, $10.00.

With our new system of packing, plants can be sent any distance.

DENYS ZIRNGIEBEL, Needham, Mass.



H. Wrede,

LUNEBURG, GERMANY.

PANSY SEED.

144 First Prizes, the highest awards World's Fair, and Hamburg, 1897.
1000 Seeds, finest mixed, 25c.
1 oz. " " " $3.75

Price List on application. Cash with order.

Have you seen our 1898 Directory? It lists every florist in North America.

Pittsburg.

TRADE SHOWS LITTLE LIFE AND THESE ARE VACATION DAYS.—VISITORS.—LUDWIG'S HANDSOME NEW STAND IN ALLEGHENY MARKET.

There is no improvement in business and the florists are taking things easy. Several are away on vacations, but only Gustave Ludwig and family, went to Omaha. Mr. Edward Reid, of Philadelphia, accompanied Mr. Ludwig on the trip.

Arnold Ringier, representing W. W. Barnard & Co., Chicago, was a visitor last week.

E. C. Ludwig has remodeled his stand, and now has one of the finest places in Allegheny market. It is ten feet wide by twenty feet long. The refrigerator is ten feet long and is finished in oak. The tops of the counters are Tennessee marble. The ceiling is iron of a handsome design and is studded with electric lights. The cost of refitting the place was over $1500. Immediately opposite one end of this stand Mr. Ludwig has another which is used as the work room for making up designs, etc. REGIA.

Standard FLOWER Pots

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST,
Station M, N. E. WASHINGTON, D. C.
Please Mention The American Florist.

FLOWER POTS
ALL KINDS.
STANDARD POTS A SPECIALTY
List and SAMPLES FREE.
J. G. SWAHN'S SONS, P. O. Box 78, MINNEAPOLIS, MINN.



GEO. KELLER & SON,
MANUFACTURERS OF
Flower Pots.
Before buying write for prices.
361-363 Herndon Street, near Wrightwood Ave.,
CHICAGO, ILL.

Standard Pots Made by
Good Railroad Facilities For shipping.
Special Attention Given to Mail Orders, and Special Sizes Made to Order.
KELLER BROS.
NORRISTOWN, PA.
Price Lists Furnished on Application.

THOSE RED POTS
"STANDARDS"
FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.
DETROIT FLOWER POT M'F'Y,
HARRY BALSLEY, Rep. DETROIT, MICH., 490 HOWARD ST.

Sulpho-Tobacco Soap
Universal Insecticide
For Flowers, Trees and Animals.
Recommended and in use by the foremost florists and nurserymen in the land.
For Sale at the Seed Stores.
ROSE MFG. CO.
NIAGARA FALLS, N. Y.
When writing mention the American Florist.

THE HARRISH DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent.
KRAFT'S PLANT TONIC
THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25 cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.
THIS INSECTICIDE IS NON-POISONOUS.
KRAFT PLANT TONIC CO., - ROCKFORD, ILL.

Standard Flower Pots...
OUR POTS ARE OF THE BEST QUALITY.
We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.
☞ Write us before placing your orders elsewhere.....
CAMBRIDGE TILE MFG. CO., Covington, Ky.



GALVANIZED STEEL WIRE PLANT STAKES FROM $2 PER 1000 UPWARDS
H. F. LITTLEFIELD, WORCESTER, MASS.



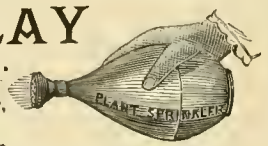
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Kearney and Westside Aves., Jersey City, N. J.
Jackson Av. & Pearson St., Long Island City, N. Y.

Standard Flower Pots.

PRICE LIST OF STANDARD POTS:—						
1¾-in. pots, per 1000	$3 00	6-in. pots, per 1000	$22 00			
2 " "	3 25	7 " "	35 00			
2¼ " "	3 50	8 " "	50 00			
2½ " "	4 00	9 " "	75 00			
3 " "	5.00	10 " per 100	10 00			
3½ " "	7 25	11 " "	15.00			
4 " "	9 00	12 " "	20 00			
5 " "	13.80	14 " "	40 00			
		16 " "	75.00			

Seed and bulb pans, same price as pots. Saucers to match pots, one-half price of pots. Ten per cent off for cash with order Send for price list of Lawn Vases, Hanging Vases and Cylinders. Address
HILFINGER BROS. POTTERY,
OR.... FORT EDWARD, N. Y.
AUGUST ROLKER & SONS, AGTS.,
52 DEY STREET, - NEW YORK CITY.

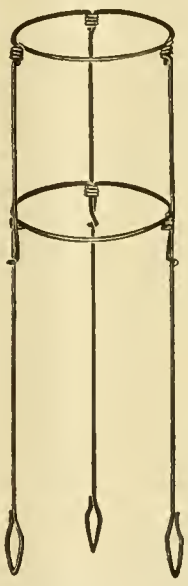
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INDISPENSABLE
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THE BEST FOR ALL Florists' "ROSE LEAF" EXTRACT OF TOBACCO INSECTICIDE
For Sale By Seed Stores
For Free Pamphlet Write to
LOUISVILLE SPIRIT CURED TOBACCO CO
LOUISVILLE, KY

The MODEL Extension Carnation Support



QUEENS, N. Y., Feb. 16, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97
MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes
AT LOWEST PRICES.
Write for Prices, Circular and Special Discounts for Early Orders.
The Model Plant Stake Co.,
THERON PARKER, Mgr., Inventor and Patentee,
22 MORTON STREET BROOKLYN, N. Y.

NIKOTEEN
IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE
DOES NOT INJURE THE MOST SENSITIVE PLANTS—ENDORSED BY PROMINENT FLORISTS—USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT—200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN
SOLD BY SEEDSMEN——CIRCULAR FREE—
SKABCURA DIP CO. CHICAGO.
Kill AND SAVE the THE BLOOMS Bugs!
QUICKLY DOES IT.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

Please mention the American Florist

Worcester, Mass.

During the last two weeks we have hardly experienced a day in which we have not had more or less rain and the deluge ended on August 19 with a cloudburst that did thousands of dollars worth of damage. Beyond a few washouts I have not heard of any serious damage to florists' property, though several plots of carnations and violets were under water for four or five hours, which did not benefit them any.

Nearly all the asters in this vicinity have been attacked by some disease that has ruined nearly every plant irrespective of variety, although the Comet and Semples have suffered the most severely. Plants that were in splendid shape six weeks ago, turned yellow, the buds blasted and turned brown, and finally the plant died. What the cause is nobody seems to know and we would be very grateful if some aster specialist would enlighten us.

Carnations in the field are coming along nicely and we will soon begin housing them; all hands are busy now in getting the houses ready for their reception.

Trade is picking up slowly and in another month we should be doing a good business. At present the supply of flowers is about right, with the exception of carnations. Roses are improving every day, Kaiserin still being ahead of anything coming in.

Dan MacRorie, representing W. A. Manda, was in town for a day last week.

A. H. L.

ARE YOU BUILDING or... REPAIRING?

Mastica, $1.00 per gallon.
Liquid Putty, 25-lb. can $1.50, ready to use.
Scollay Putty Bulb for applying Mastica or Liquid Putty, 85c.
Van Ryper's Glazing Points, per 1000 60c, by mail 75c.
Glass Cutters, steel roller, 15c each.
Mastica Glazing Machine, $1.00 each.

Ellis & Pollworth,
Box 75... MILWAUKEE, WIS.

A material has been discovered for glazing which after thorough tests has been proven far superior to putty; it is called

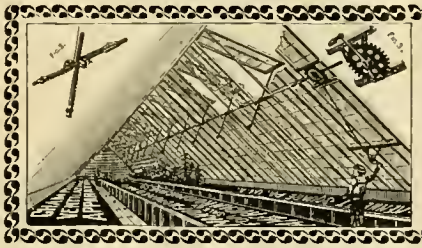
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It is not affected by extremes of weather, and is thus especially adapted for greenhouses, etc. Send for descriptive circular of Mastica and Mastica Glazing Machines.

F. O. PIERCE CO.,
Sole Manufacturers
170 Fulton Street, NEW YORK.

H. M. HOOKER COMPANY.
COR. CLINTON and RANDOLPH STS. CHICAGO.
GREENHOUSE GLASS
OUR SPECIALTY.
LARGE STOCK PROMPT SHIPMENT.
ALSO MANUFACTURERS OF Pure Linseed Oil Putty, Paints, Brushes Etc.
WRITE FOR LATEST PRICES

WHEELER-STENZEL CO.
IMPORTERS AND JOBBERS OF
Greenhouse Glass
Make your contracts for next season now. We can deliver to any part of the country and Save You Money.....
72 Sudbury St., BOSTON, MASS.



EASY
It's easy to use because the principle is right. A boy can operate it.
It's easy to put up because of it's extreme simplicity.
It's easy to buy because the price is reasonable.....
THE CHAMPION VENTILATING APPARATUS
Catalogue is free. A postal with your name and address secures it. Address
AMERICAN ROAD MACHINE CO.,
Kennett Square, Pa.

Glass Hot Bed, Greenhouse and Ventilator Sash
GULF CYPRESS BARS, ETC.
MANUFACTURED BY
S. JACOBS & SONS, FACTORY: Queens Borough. OFFICE: 406 W. 13th St., N. Y.
WHITE LEAD, PUTTY, Etc., at Wholesale. Estimates Cheerfully Furnished.

ANGUS MORRISON,
Wholesale Jobber in
PLUMBERS', STEAM, GAS and GREENHOUSE SUPPLIES.
Telephone Lake View 88. 375 LINCOLN AVE., CHICAGO.

Now Ready! The American Florist Company's Directory of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Price $2.00. In Flexible Leather Binding, $3.00. Fully revised to date with upwards of 3,000 New Names
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CYPRESS
IS MUCH MORE DURABLE THAN PINE.
CYPRESS SASH BARS
UP TO 32 FEET IN LENGTH OR LONGER.
GREENHOUSE AND OTHER BUILDING MATERIAL.
Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."
Send for our Special Greenhouse Circular.
THE A. T. Stearns Lumber Co.,
Neponset, Boston, Mass.

INVALUABLE FOR THE GREENHOUSE



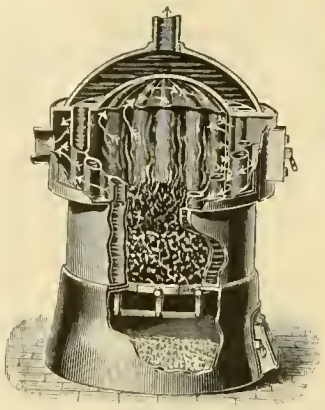
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Old English Glazing Putty
Semi-Liquid. Used in Bulb or Machine.
IN GALLON CANS AND LARGER PACKAGES.
It has no equal probably for Greenhouse work.....

Hammond's Paint.
GREENHOUSE WHITE.
For 20 years many Florists throughout the United States have used this paint.
The purest and most durable that can be made.
At prices to the craft that will pay to use it.
BENJAMIN HAMMOND, Fishkill-on-Hudson, N. Y.

Rochester, N. Y.

Trade has been rather slow for sometime. The regular, every-day funeral work helps along a little, but we rarely see all hands busy in a store. Flowers are quite abundant. Roses are poor at from $4 to $8 per 100. All other stock is cheap but qualities have improved wonderfully in the last three weeks.

Last week about fifty of our florists responded to an invitation from Vick & Hill to visit their establishment at Barnard's crossing, a few miles out of the city. The greenhouses as well as the spacious grounds were found to be very neatly kept; not a single weed could be detected in even the most remote corner and all stock is in a flourishing condition and remarkably healthy. Their new aster, Daybreak, was inspected and all comments were favorable; in a whole acre, there is not a flower which shows the least sign of a yellow center. The blooms are very double, with long, broad petals, resembling a good sized Bergmann chrysanthemum and the stems are eight to ten inches long. It is a better pink than Semple's, and will undoubtedly become very popular as a market flower. There is also a pure white form of it. Everybody partook of a bountiful lunch and the good time continued until late in the evening. Bobby Bard, the expert rose grower from Syracuse, happened to be in town and, of course, was one of the guests, happy as ever. K.



"DORIC" HOT WATER HEATER.
SECTIONAL VIEW

Doric

CAPACITIES FROM 400 to 2600 FT. 2-IN. PIPE.

The Best Boiler on Earth for Greenhouse Heating.

ALSO MADE FOR STEAM.

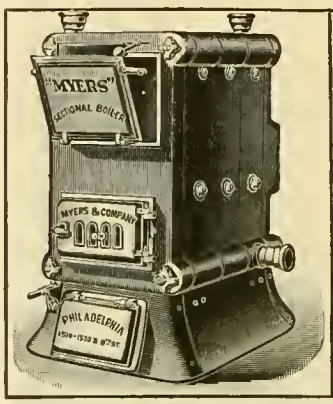
Water Section Made in One Casting. No Leaky Joints to Worry Over. Deep Fire Pot. No Need to Sit Up All Night to Keep Your Fire Going.

THE STANDARD OF THE WORLD.

SEND FOR FLORISTS' CATALOGUE AND PRICE LIST FREE UPON APPLICATION.

GURNEY HEATER MFG. CO.

NEW YORK CITY BRANCH: 74 Franklin St., Cor. Arch, 48 Centre St. BOSTON, MASS.



MYERS

Improved Sectional Hot Water Boilers

FOR HEATING GREENHOUSES, CONSERVATORIES, ETC.

GIVES MOST HEAT FOR LEAST MONEY.

ROBERT CRAIG & SON, of Philadelphia, say of it: "We are wonderfully well pleased with your Myers Boiler. We recommend it to anyone desiring a strictly first-class hot water heating apparatus."

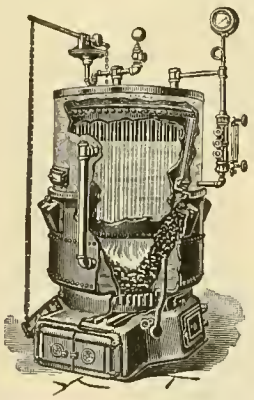
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GORTON SIDE FEED Boiler



is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

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Steam and Hot Water Heating

ECONOMICALLY AND PERFECTLY INSTALLED BY

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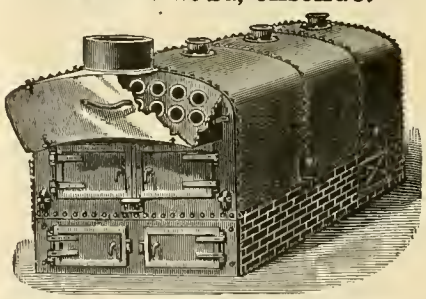
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Greenhouse * * Boiler,
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Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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Boilers OF HIGH GRADE..

For GREENHOUSES.

See our Catalogue.....

Steam and Hot Water Giblin & Co., Utica, N. Y.

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Business has been better the last few days as we have had several occasions which called for quantities of flowers, but good roses were very scarce. Sweet peas are a failure in many places and no one can give a good reason for it. Many of our amateurs have not picked any flowers this season. Asters have been coming in but a small black beetle in some places destroyed the entire crop. Some growers have sprinkled with Paris green, but it is rather a dangerous thing to do.

Some of our florists have planted their carnations inside on account of the grasshoppers and the weather is very hot again, but it doesn't seem to affect them.

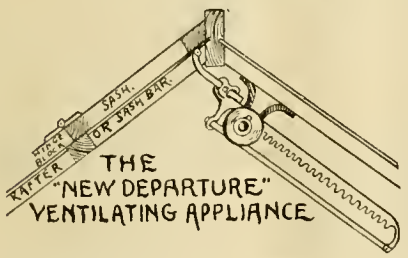
We hear that the Society of American Florists is coming to visit us next year and has made our president, Philip Breitmeyer, its vice-president. The Florists' Club is pleased to have them come and will try to give them a good time. We hope to see a big crowd. We will have a shoot so that Philadelphia can get out her blooded stock, also a bowling contest but Buffalo won't take the Evans Challenge Trophy home; it will stay in Detroit. R. F.



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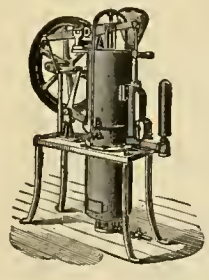
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SAN FRANCISCO, CAL.—The California State Floral Society celebrated its tenth anniversary August 12. Mrs. Hodgkins, vice-president, and Prof. E. E. Smith, secretary, have filled those positions continuously since the organization was perfected. The address of the day was by Prof. Ratton, botanist at the State Normal School at San Jose.

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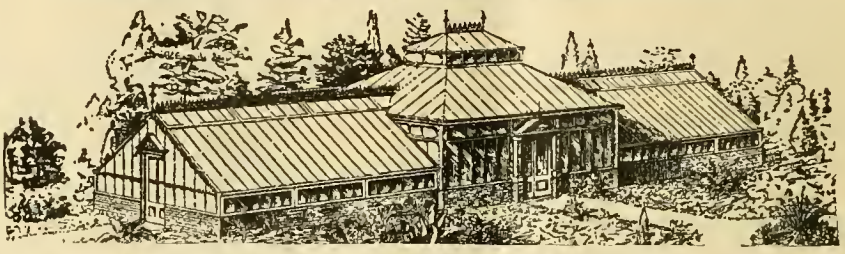
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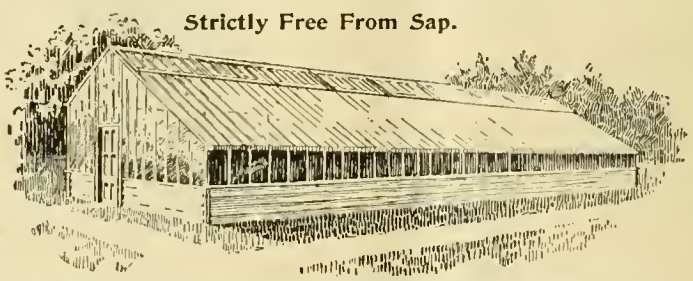
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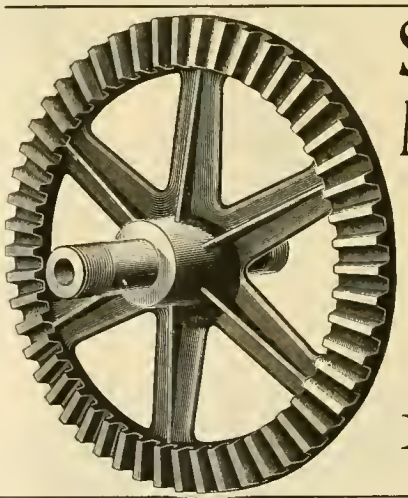


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OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fourteenth annual meeting will be held at Omaha, Neb., August 16-19, 1898.

OFFICERS-ELECT [to be installed Jan. 1, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898. ELMER D. SMITH, Adrian, Mich., secretary.

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Our Trade Directory.

No wholesale dealer in plants, seeds, nursery stock, heating apparatus or florists' supplies can afford to do business without the American Florist Company's Trade Directory. This handy volume of 351 closely bound pages lists every dealer in the business and contains classifications and other information of great value. It is sent postpaid for $2. Bound in flexible and durable leather, handy for the pocket, $3.

Schenley Park Notes.

Pittsburg is rapidly being acknowledged as the foremost manufacturing city not only of the United States, but in many respects of the world, and at the same time it is forging ahead in other respects, notably so in the development of its parks, which ultimately will be strictly up-to-date in their appointments. Schenley Park is the central and largest of them and is just commencing to give to the observer an idea of the magnitude of the task of making this tract of land into a first-class park.

Wm. Falconer, superintendent, is effecting the changes and improvements in a most thorough and systematic manner. A vast amount of grading and road making has been done this year and last spring about 25,000 trees and shrubs were planted out. The arrangement adopted in this work is that laid down in Hooker and Benthami's "Genera Plantarum," and which has been followed throughout except where the situation prevents the growth of a particular order of tree in any particular place.

A beginning has been made on a little lily pond, which is filled with nymphæas, etc. In its neighborhood are clematis, pæonies, calycanthus, chionanthus, magnolias, berberis, hypericum and others. An adjoining ridge is devoted to all kinds of lindens; further on we come to maples and horse chestnuts, with a belting of sumach; then all manner of trees having pea-shaped flowers, the yellowwood, yellow and honey locusts, and the Kentucky coffer tree for example. Beyond that the rose family is represented; it consists of plum trees, ornamental apples, cratægus (hawthorn) and others, with fringes of lesser genera, as roses and spiræas and the saxifraga family, which includes such plants as hydrangeas and deutzias. Then we pass on through sweet gum, witch hazel, aralia, cornus, elder, honeysuckle, the rhododendrons, persimmon, snowdrop tree, privets, catalpa, sassafras, elm, plane (sycamore) trees, walnut, birch, willow, ginkgo and the pines.

The soil of this park being devoid of all surface covering in the way of undergrowth, an effort is being made to cover all of the slopes densely with shrubs, small trees and the stronger hardy perennials, not only for beauty's sake but to conserve moisture, arrest the rainfall and exclude the drying influences of sun and wind. The deleterious gases from the railroad passing through the ravine, and the contiguous iron mills are tending largely to destroy all tree growth, so much so that scarcely an old tree is left alive alongside of them, either in or outside of the park; hence the great effort to reforest their vicinity.

This from the nature of the ground is very laborious as well as expensive planting, or to be more correct preparation for planting. Good soil is very scarce, so that it must be brought from elsewhere, but, owing to the opening of new streets in the immediate vicinity, Mr. Falconer has been enabled to secure quite a quantity, getting the surface soil from several streets one of them a mile in length by 100 feet in width, the depth ranging from six inches to two feet, the latter that part of the street laid out in what was formerly John R. & A. Murdoch's nursery ground; the under stratum is either rock or heavy clay. The method of planting is as follows: For large trees holes from six to eight feet in width and two and one-half to three feet in depth are made, mostly by blasting, and dug out. The bottom is then blasted, in rock using dynamite and for the clay, gunpowder. This shatters it, enabling the roots to make easy passage and affording drainage for surplus water.

The nursery connected with this park, while comparatively new, is one of the best stocked in the country. It is about twenty-four acres in extent and everything is looking in first-class condition. The stock is grown here for at least a year before it is used in the park and the appearance of the things already planted is evidence of the wisdom of this course. The nursery is in charge of Robert Carlisle. In addition to the planting the bridge over Panther Hollow has been completed at a cost of $165,000, the Schenley bridge at a cost of $240,000, the Bellefield bridge at $110,000. The two latter form the main approach to the park. These figures do not include the cost of connecting roads and immediate grounds. A music pavillion of elegant design has been erected. This cost $7,000 and is pronounced one of the best in every way.

The roads are made in the most approved manner, but owing to the clayey formation, have to be cut out very deep so as to be frost proof; the cost is rather steep, averaging about $40,000 per mile. They are from forty to sixty feet wide, with ten-foot sidewalks. Owing to the change of roads, on account of the new bridges being erected and consequent change in grading, the ornamental bedding has been confined directly to the immediate vicinity of the Phipps conservatories. The designs consist in the main of Masonic and Knights Templar emblems, in honor of the Sir Knights' triennial encampment to be held here in October. The plot of ground in front of and between the conservatories and the main

road, which is much lower, will in the near future, be cut down and graded so that the conservatories will appear on higher ground and to much better advantage than at present. This will be a very large job to do as the greater part is rock, but when finished will add greatly to the beauty of the park.

The conservatories proper are in very good condition. The economic plant house which Mr. Falconer has taken great pride in establishing is rapidly improving and to-day furnishes one of the most interesting exhibits here. Guava's in variety, oranges, lemons, coffee, tea and other plants to which the ordinary northern resident is a stranger are growing beautifully, attracting a large number of visitors. In other houses are a collection of fancy leaved caladiums, one of the largest in the country; pitcher plants and other stove house occupants leave nothing to be desired. The Victoria regia house is arranged in a very artistic manner. This and the adjoining nymphæa house are decidedly tropical in appearance. The leaves of the Victoria are over eight feet in diameter and entirely free from blemish, the men in charge having mastered the insects this year.

Preparations are in progress for the chrysanthemum show in the fall. The plants are now in a strictly first-class condition, foliage elegant, and undoubtedly the display will be of the highest character. John Jones has had charge of these this year, as for two years past. Mr. Falconer has appointed Mr. Jones general foreman, in the place of Joe Spring, who removed to Virginia, and Wm. Dole, assistant foreman; both are experts and thoroughly acquainted with the conservatories.

This short account of what has been accomplished in a year under the able management of Mr. Falconer will, in a slight degree, explain to others why we say that one of the finest parks in the country will be that in which his skill is exercised. REGIA.

Lily of the Valley Shower Cluster.

The accompanying engraving of a shower bunch of lily of the valley is merely a suggestion as to one of the forms in which these graceful flowers can be arranged. The ordinary round, solid bouquet was good enough for a long time, and in fact, to this day some florists never give any other arrangement a thought. Such a cluster as this, however, is, we think, more in keeping with the flowing drapery of the bridal veil, and at any rate it is apt to attract more attention on account of its comparative novelty. There are about twelve dozen sprays of lily of the valley in this cluster, most of the foliage having been removed and adiantum substituted, thereby giving it a more light and graceful appearance. Ten yards of satin grosgrain ribbon No. 1 are used, to which loose sprays of the flowers, together with a sprig of maidenhair, are attached after the main bunch has been arranged. K.

Can We Alford to Attend the Convention?

Nine persons out of every ten whom I have interrogated on going to the convention, after having pointed out to them what seems to me to be the advantages, information and opportunities gained from such a meeting, have answered: "I cannot afford it." Gentlemen, this is certainly a mistake. Personally I most certainly feel that I cannot afford to remain at home and thus miss the things of value which only such conventions always bring to florists. Travel and observation such as the annual convention affords furnish men with facts and splendid information. Someone has said: "All that we see becomes a part of us."

It is my opinion that the Omaha convention will go down in history as one of the most practical, helpful and instructive meetings ever held by the S. A. F. Nearly every one present seemed to be enthused, and all were free to impart to others the knowledge which they possessed on the subject of floriculture. There were a number present at the convention for the first time; especially is this true with regard to the florists of the west, some of whom were heard to remark: "This is not the last convention we will attend."

E. C. Newbury, of Mitchell, S. D., said to a little group of florists, that this was his first visit to our conventions, and that he had entertained no idea as to



LILY OF THE VALLEY SHOWER CLUSTER.



MEMBERS OF THE S. A. F. AND THEIR FRIENDS AT THE J. F. WILCOX ESTABLISHMENT, COUNCIL BLUFFS, IOWA.

what he had missed by being absent. He expressed regret that he had not earlier embraced his opportunity to be more directly connected with our organization by way of attendance upon the yearly gatherings.

The meeting to be held in Detroit next year, because the city is a most delightful one, centrally located and always cool in summer, cannot but be helpful in every respect to florists. By deciding now to attend this meeting in 1899, and shaping our plans and work to this end, there can be no reason why a great many florists cannot go who hitherto have been absent from the conventions and who have thus missed their opportunity for pleasure and profit. Some one has remarked: "The stay-at-home-florists are rarely ever up-to-date." The information to be had out of the side talks between the sessions can not be gotten in any other way.

The hospitality accorded us by the florists of Omaha and Council Bluffs was genuine, and will linger in our memory as long as life shall last. We do not see how the kindness shown us by J. F. Wilcox, whose bountiful hospitality gladdened every heart, will ever be forgotten. I think he found it "more blessed to give than to receive," by the enthusiastic and hearty manner in which he entertained the 265 florists. The bountiful repast which he served on his beautiful and spacious lawn was ample to satisfy the most epicurean in taste.

One year ago when it was voted to hold the next meeting in Omaha, many of the eastern florists remarked substantially: "The S. A. F. has received its death blow." There were some who expressed their sympathy for President-elect Gude saying: "It is unfortunate that the society should die in his hands." But how different from all this the outcome is. President Gude has carried us through one of the most successful conventions ever held by the society, for which painstaking effort he deserves both credit and complimentary mention.

It should be remembered by florists east and west that our society is national in its composition and influence, not sectional and limited. I hope to see the day when, as a society, we can meet successfully in California. Robert Craig voiced the feeling of many of his brother florists when he said: "I wish that our eastern people could come out here and see and study this marvellous country and get better acquainted with this noble people."

Kokomo, Ind. W. W. COLES.

Carnation Culture.

Mr. Herr states in a recent article that if carnations are grown indoors throughout the season and propagated from for a few years in succession they will run out and become worthless. If this is an opinion, simply, I am inclined to dispute it. If it is based on observations and trials sufficiently numerous and extended to make the statement certain, it would be interesting if Mr. Herr would give them fully, as such trials have, I believe, never been fully reported. X.

My statement quoted by "X" was made as an opinion and not as the result of observations and trials, as I have never had the opportunity to make them.

The opinion, however, is based on the fundamental law of the survival of the fittest, a law that we carnation men are too much inclined to ignore. The growing of carnations indoors during summer is anything but conducive to fitting them for propagation. In the first place, they are subjected to a degree of heat that is entirely opposite to their requirements; this can be easily verified right now by making a microscopic examination of the cellular and tissue matter of the plants that have been growing in the houses all summer and comparing them with the same variety grown outdoors.

The indoor grown carnation in the hands of a good and careful manager can, by the application of fertilizers, and the careful attention to watering and other necessary details, be brought up to a fine looking plant and made to produce excellent blooms. The outdoor plant in the hands of a careless grower can speedily lose all the points of advantage it may have gained by its open air culture and by the time the stock is wanted for propagation, say January 15, the careful grower of indoor stock may have the better stock from which to propagate.

Possibly I should have modified my statement and said that a new variety will, in the hands of the average carnation grower, run itself out in a few years. This is plainly evident to everyone who has kept his eyes open the past five years, and will be much more so if the average carnation grower gets to growing his stock indoors during the summer, for there can be no question but that this method has a weakening effect on the constitution of the plant and thus unfits it, in ordinary hands, for propagation.

There is no occasion for a good carnation to run itself out in a comparatively few years, as all of them are not doing—in fact the great majority of varieties seem to be pretty well run out when they leave the originator's hands. If we employ a little common sense in handling our parent stock a variety should not only last a long time but should improve in all good points.

It might be well to give this question some attention now, while we are engaged in planting the stock. To get the best plants for propagation they should remain in the field just as long as there is no actual danger of frost for they make a growth these cool nights that is ideal for their future health. By leaving them out in the field I do not mean your blooming stock, which should be housed

just as quickly as possible and should not be used for propagation.

As an illustration we will say you want 1000 rooted cuttings of Flora Hill for next season. To get them in the best possible shape select about fifty of the healthiest plants in the field and let them remain where they are until there is danger of frost, being careful not to disturb them in taking up the others. As frosts approach plant them in a good, sunny, well ventilated house used exclusively for stock intended for propagation. Great care should be used in planting them so that they receive the least possible check. After they are well started they should be grown along in a temperature ranging from 40° to 50°, with a possible 60° on bright days. Allow them to bloom but do not expect exhibition flowers and do not attempt to stimulate them into making such flowers; simply keep them in the best of natural health and then carefully note the blooms produced by each plant and if there are any among them that produce inferior flowers, temperature and other points taken into consideration, pull them out.

With this method of treatment you will have, by January 1, plants that afford a good lot of first-class cuttings and by February 1, a second lot will be ready, so that you can select each time five hundred cuttings which will give you clean and perfectly healthy stock.

Cuttings grown from such stock, with the same method of selection followed year after year, will result in the building up of a variety instead of its running down.

Growers who are not so situated as to give up a whole house to stock for propagation can obtain the same results by placing the stock plants in a house with some blooming variety which does not require a high temperature, and the little extra trouble and expense will be repaid a thousand fold, even to the smallest grower.

Cuttings from such stock can be stimulated and fed and warmed up to give us the large and perfect flowers we want for our trade and when we separate our plants we can give those which require it the extra feed and heat with a clear conscience as our stock plants are off taking care of themselves and we have only the flowers from the plants we are forcing to consider and run no risk of injuring our next season's stock.

I would like to have "X" give his views on the subject of cuttings from indoor grown stock; in fact we ought to have the frequent exchange of the ideas on many subjects of a host of carnation growers, as that is the only way we can become masters of our art.

ALBERT M. HERR.

Garden Notes.

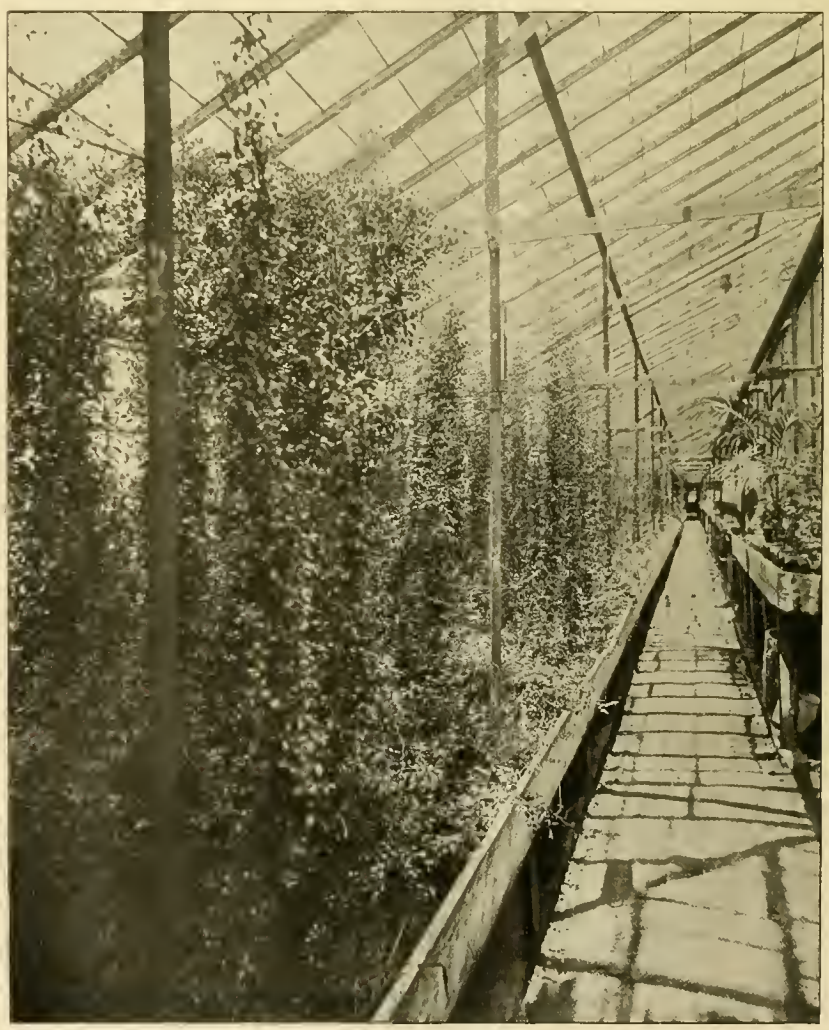
I suppose that everyone is acquiring and propagating Begonia Gloire de Lorraine. The acquiring I find is much more difficult than the propagation, and those of us who have the young plants are apt to keep them in an unobtrusive corner for a season or so. It is safe to say that no begonia novelty has ever been distributed of so much merit, but I hear that it is found hard to propagate. We have had no trouble to root the cuttings, and even the leaves from the base of the stems will root freely, as we found from some that dropped on the sand in the propagating bench; but we find that to have good branching plants it is no use to take cuttings unless they are from the base of plants that have been cut back, the lower they are taken the better; tips of longer shoots grow on and up with a flower at each joint and never a side shoot. It will be found, also, that shallow pans are preferable to pots, as this plant is a surface rooting one, not requiring a deep medium for its roots. Shallow pans that can be suspended when the plants are in bloom will give the best results at all times.

We had heard that tuberous begonias could be wintered wherever a potato would keep, and as we wanted ours late in the summer to be the most useful, the whole of them were placed in a cellar with an earthen floor in the fall of last year, tops and all, and a covering of sand placed over the pots. The tops died off naturally, and we did not lose one per cent of the bulbs. They were brought up late in May and will be very useful in September when flowering plants are scarce. Our whole stock of gloxinias was stored in a similar way, every bulb perishing. Always tell of your failures.

The minute insect known to gardeners as the mite that attacks so many plants, but especially the cyclamen, gloxinia, achimenes and others, a species that Prof. Bailey tells me is new to science, had failed to give way to everything we knew of in the way of a remedy, including hydrocyanic gas, bisulphide of carbon and other deadly compounds. These often kill the plants and leave the mite uninjured. We are using now a vaporizing tobacco extract, and the cyclamens bid fair to be as good as in times gone by. Cyclamen growing was altogether too much of a processional affair; one might be in the front one year, but would be relegated to the rear the next, and all due to a microscopical insect that was to be found under the divisions of the calyx of an unopened bud, that crippled the flowers and caused them to develop mottled or variegated colors.

To those who have not tried the Chabaud strain of carnations for summer flowering we would advise a trial another year. They are an improved strain of the Marguerite, with the difference that about all are perfectly double, very fragrant, with yellows mixed in, and of very easy culture, flowering the summer long if sown early. When the Marguerite carnations ceased to be the product of one man's selection and became cheap, it also quickly became poor, but Chabaud seems to have gone on with the work and very much improved his strain. For cutting in the summer we find them invaluable, and at Newport, R. I., they are grown by the thousand for a like purpose.

Among hardy summer roses for beds there are none more reliable and valuable than the Souperts. Here in the east they have proved entirely hardy and flower almost all summer. The variety of color adds to their usefulness. The so-called hardy roses seem to be called hardy because they do not die outright the first year. They might be described in lists as "taking more than one year to die," and then the growers would not expect too much from them. We find that with



MENDENHALL'S SMILAX AND ASPARAGUS HOUSE, MINNEAPOLIS, MINN.

bugs and mildew in summer, and the frosts in winter, there is no more unsatisfactory class of plants among those which a gardener is expected to grow.

Of the recent additions to hardy plants, mention must be made again of Rudbeckia Golden Glow. It is of surpassing merit as a border plant for a back row where tall subjects are used. With us it grows fully eight feet high, and is in full bloom in July. The stems are smooth and not rough as in the sunflowers, and it is as double as could be wished, with much branched panicles of bloom. It will in time become as popular as the hydrangea and Clematis paniculata. E. O. ORPET.

A Minnesota Establishment.

Few florists have any idea of the extent to which the industry of floriculture has grown in those portions of the Union which are as yet comparatively new. Minnesota is a sparcely settled state yet it has beautiful and populous twin cities, St. Paul and Minneapolis, and in the latter is the establishment of Mendenhall, the florist Mendenhall has the largest place in the middle north. He has ten acres of land, over 110,000 feet of glass, 24,000 feet of steam pipe and 6,000 feet of hot water pipe. Last winter it took over 1000 tons of coal to keep Mendenhall and his plants at the proper temperature and thirty employes draw their pay every Saturday night. Thirteen of the houses are constructed of iron and the entire establishment is eminently up-to-date.

Mendenhall's place is at Eighteenth street and First avenue, South, and is but five minutes by electric car from the business center of the bustling northern metropolis, which is really one of the prettiest cities in the country.

The only stock grown in this establishment is that suited for home culture, bedding or cut flowers. Mendenhall does not believe in "plants by mail," but he never overlooks an opportunity to capture an order which may go by express over one of the dozens of railroads centering in Minneapolis. Orchids, roses and carnations are his especial pride but he also grows large quantities of asters, mignonette and sweet peas, and in their season lilies, hyacinths, tulips and bulb stock in general. Violets are as popular in the Twin Cities as they are in the effete east and it taxes Mendenhall's capacity to supply the demand. In decorative plants, palms and others which are prized for their foliage, Mendenhall has a complete collection and a retail trade which warrants such an investment. He has a seed department which enjoys prosperity and each branch of the establishment is in charge of a thoroughly capable man; Mendenhall himself has a watchful eye upon the whole.

Mendenhall, the florist, has another name, although few there are who ever heard it, and some times signs himself, "R. J. Mendenhall." We reproduce herewith photographs of his three-hundred-foot smilax and asparagus house and his house of specimen palms.

WATSEKA, ILL.—At the annual September fair there will be a class offering ten premiums for the best displays of greenhouse products.

COLUMBUS, O.—Affleck Bros. have added the five houses of the G. W. Campbell estate at Delaware to their new establishment here. The Campbell homestead is to be used as an art hall by the Ohio Wesleyan University.

New York.

BUSINESS FALLS OFF AGAIN WITH HOT WEATHER.—TOURISTS RETURNED.—STOCK OF POOR QUALITY GENERALLY.—CATTLEYAS AND LILY OF THE VALLEY IN DEMAND.—ASTERS IMPROVING.—COMING CLUB MEETING.—AMERICAN INSTITUTE FAIR.—BRIEF LOCAL NOTES.

Business, which seemed to revive under the spiriting effects of cool, bracing weather, has again, with the advent of high temperature and humidity, dropped down to the vanishing point and there is little for either wholesalers or growers to do under the circumstances but to sit down and ply the fan. About all those who have been rusticating have returned, well browned and hearty, ready for work when it comes their way. Visits to the growers are now in order; there is stock to examine, prospects for winter to be discussed and it is now, in the natural course of events, the proper time for a general handshaking with the growers. The bigger the grower, the bigger the handshake, especially if his stock has a wide reputation for quality.

The stock coming in now will not, however, make a great reputation for anybody, and the demand, which has been active during the past few days on account of the Tiffany funeral and other similar events has not been easily filled with the kind of stock on hand which, with the exception of cattleyas and lily of the valley, is very different from the kind of stock wanted. Perhaps it is safe to say that good carnations sell as well as any flower in the market, and better than most things. Asters are improving—that is, the fine large Semple varieties are now coming in, and they sell for three or four times the price obtainable for the small common stuff that the market has been overloaded with.

Indications point to a very enjoyable evening at the opening session of the Florists' Club Monday evening, August 12. The evening will be social in character, and a general interchange of views regarding the winter campaign will be in order. There should be a large attendance.

The sixty-seventh fair of the American Institute will open at the Academy of Design on Monday, September 26. During the first week the special features of the horticultural exhibit will be dahlias, gladioli, stove and greenhouse plants, bouquets and miscellaneous cut flowers. List of premiums may be had by applying to Mr. J. W. Withers.

Mrs. Wm. Plumb has been seriously ill for some time but is now improving. A married daughter with two children, who now lives in Chicago, has been visiting at Mr. Plumb's.

Roberts & Grunewald have secured the adjoining store to that occupied by them at 247 Columbus avenue, and the improvements when completed will give them double their former store room.

Mr. F. H. P. Imbert is about to sail for a brief visit to Europe.

Wm. Elliott & Sons will start their series of fall plant auctions on September 13 with a big line of palms, violets, carnations and bulbous stock.

In town: P. J. Berckmans, Augusta, Ga.; Albert E. Cocquerel, representing E. Cocquerel, the well-known wreath manufacturer of London, is at the Astor house this week with a line of samples.



MENDENHALL'S PALM HOUSE, MINNEAPOLIS, MINN.

Philadelphia.

STOCK IS IMPROVING SLIGHTLY.—SUMMER MATTERS.—MORE CARNATION HOUSES.—VIOLETS PLANTS ARE SMALL BUT HEALTHY.—JOTTINGS.

The summer atmosphere continues to predominate, still we will not complain after reading about that 102° at Omaha.

Stock is improving slightly and Beauties with stems from twenty-four to thirty inches long may now be had at the moderate prices of $1.25 to $1.50 per dozen. However. orders for more than two or three dozen could not be filled by any one grower. Of the shorter stock there is an abundance at $4 to $6 per hundred. Kaiserin is still the finest white and the new crop of Maids, now beginning to come in, are the best pink. Semple asters are plentiful; the finest appear to be worth more than $1, but as that is the asking price either the demand must be very light or else the market is overstocked. It is a question whether it pays to have anything choice in quantity during the summer months in this market, there is such a suspension of social affairs. We fancy a slight improvement has taken place the past summer or two and it is possible that eventually the magnificient suburban residence districts within ten miles of the city, that are being rapidly built up, may catch the people and holds them within our reach.

George Watson, the seedsman, says the large sizes of Bermuda lilies are all sold out and that in most cases the limited stock had to be divided out pro rata as none of the trade received their full orders from the growers. Smaller sizes are still to be had.

Peyton DeWitt, at his Croyden establishment, is adding two structures 20x100 and 10x100, to help house his increased stock of carnations. A new windmill and a 10,000 gallon water tank is also going up.

Rodman Eisenhart, of Holmesburg, has moved into his new dwelling. It is a fine twelve-roomed mansion built in the colonial style. Mr. Eisenhart grows violets exclusively. He says the plants this season are not quite so large as last year's at this time, but are in good health, which is more to be desired than size.

Joseph Schuler, an engineer at the Dreer nurseries, Riverton, met with a painful accident, a piece of metal from a casting he was chiseling striking him in the eye. The injury was so severe the eye had to be removed.

Wm. Thompson, of Thirteenth street, below Walnut, has been quite ill with pneumonia the past month, but is now able to be about.

Robert Stewart, Thirteenth street above Walnut, opened again on the first of the month. For the past few years he has shut up shop during the month of August and says he saves money by the operation.

K.

Boston.

MANY FLOWERS USED ON ACCOUNT OF SOLDIERS' FUNERALS.—MARKET CONDITIONS.—HANDSOME FLOWERING SHRUBS AT THE ARNOLD ARBORETUM.—A BUSH IN A COOP.—DISPLAYS AT HORTICULTURAL HALL.—FORESTRY VISITORS.

Dirges and muffled drums have been familiar sounds on Boston's streets during the past few days. Intensely impressive are these last sad tributes to our dead heroes, but special reference to them in these notes would scarcely be called for were it not for their direct effect and influence on the demand for flowers. Floral tokens have been provided with lavish hands by individuals, organizations and public institutions and the sum total of the expenditures in this direction must reach an enormous aggregate. It has been a boon to the flower growers and the flower workers and it is safe to say that the florists of Boston have seldom been called upon to work under circumstances when their heart was so close to their hands or the impulse so strong to do their very best for every comer.

The quality of roses in the market is by no means high but the flowers, although undersized, are, as a rule, clean and bright and they have been well used up. Carnations are scarce, but there are plenty of white asters and white Japan lilies are just in their prime, making in connection with fine adiantums and asparagus, a rich effect in funeral design work. For really choice work lily of the valley and stephanotis are about the only material offered.

One of the most beautiful shrubs in the Arnold Arboretum at present is Hydrangea paniculata. This is the original species, from which came the well known H. paniculata grandiflora, which it greatly excels in grace. Every lawn should have a specimen; the late flowering form is the best. Very pretty for low shrubbery borders is Lespedezia sericea, a Japanese species, which blooms profusely through the late summer and fall. Its airy branches, loaded with little, white, violet veined flowers, give the effect of ericas at a short distance. Nothing can be found in the whole list of shrubs now flowering handsomer than Clematis Davidiana. Its clusters of bright porcelain blue flowers in appearance and fragrance might easily pass for single hyacinths. Myricaria Germanica is much admired for its soft, airy effect among the heavier foliaged plants. The foliage closely resembles that of the tamarix but is a decided glaucous blue in color.

A plant in a cage causes much curious comment among visitors to the Arboretum. It is the true Actinidia polygama and is the only survivor of a large number, all the rest having been destroyed by cats, for which this species possesses a powerful attraction, and Mr. Dawson has found it necessary to build a substantial coop of chicken wire around and over it to save its life. He states that the plant which has been distributed as Actinidia polygama is A. arguta. Mr. Dawson's hybrid roses grow in interest as the new ones come into flower for the first time. One that bloomed this season, a cross of setigera on Wichuraiana, has the flowers of the former on the habit and foliage of the latter. Gordonia altamaha is full of buds and its magnificent camellia-like flowers will make a grand show in about two weeks.

Although no exhibition was scheduled for Saturday, August 27, there were a number of interesting collections shown in Horticultural Hall. J. Warren Clark had some handsome seedling gladioli, for one of which, a pale yellow with good form and spike, named Yellow Bird, he received honorable mention. The Mycological Society turned out in full force and made a big display of edible, doubtful and poisonous fungi. The interest displayed in the special field of this society is astonishing. The membership is said to have already reached five hundred.

The meetings of the American Forestry Association in connection with the visit of the society for the advancement of science last week, were held in Horticultural Hall, President Appleton of the Massachusetts Horticultural Society presiding. An opportunity was given the visitors to see Boston's enterprise in the matter of park and boulevard improvement. The procession of barges and tally-hos that made a tour of a portion of the park system on Thursday was a big one and it took a long route, but it might have been repeated every day for a week over new territory, before all the attractive features of mountain and plain, forest and seaside, included in the fourteen thousand acres of Metropolitan reservations had been fully seen.

The news of the death, in Germany, of David Nevins is sad news for the frequenters of Horticultural Hall, who have recognized with high appreciation his love for horticulture and his services in its cause. The many contributions from his greenhouses to the exhibitions in which he took as much pride as did the gardener who produced them, his princely hospitality on many occasions to delegations of the craft who visited his beautiful estate at Framingham and his ever-ready hearty greeting and hand shake are fresh in our memory and he will be sadly missed.

Welch Bros., are receiving American Beauties of superb quality for the season and a quick outlet is found for them at the fashionable seaside resorts.

James Delay & Son have discontinued their large store on Boylston street and relocated at their old stand, 220 Boylston street.

Visitors in town: Prof. Beal, Lansing, Mich.; Prof. J. F. Cowell, Buffalo, N. Y.; E. O. Orpet, Lancaster; J. Fuller, Leominster, Mass.; D. Fuerstenberg, Philadelphia, Pa.

John Gormley & Son have acquired more room and are enlarging their store on Tremont street.

Cincinnati.

Business has been slow the past week, but the outlook for the coming week is very encouraging, as several of our leading theaters will open, and with the G. A. R. encampment in our city no doubt every available flower will be sold.

On September 8 the business houses will give an industrial parade in honor of the G. A. R. A float on an immense scale will be put up for the occasion by the Cincinnati florists. Will Murphy, one of Col. Roosevelt's Rough Riders, will handle the ponies and no doubt will have his hands full (I mean of ribbons). The wagon will weigh four tons.

Prices on roses remain about the same. Carnations have never been better at this time of the year and meet with a steady sale. Messrs. Will and C. C. Murphy are sending in some good blooms.

George & Allan, of Hyde Park, are sending in the best Semple asters of the season. Smilax has been very scarce of late, in fact there are none to be had.

The greenhouse plant of Critchell's Sons is progressing very nicely and the ten houses under way will be completed the latter part of September.

Edward Hoffmeister and sister have returned from the Great Lakes, where they have been spending a couple of weeks.

Mrs. Gustave Adrian, of Clifton, will leave for Niagara Falls and other eastern points the coming week.

It is rumored that Frank Ball, of the Cincinnati Cut Flower Company, is to be married in the near future to a charming young lady, who is connected with a leading flower store on Fourth street. Congratulations are in order.

H. SCHWARZ.

THE AMERICAN FLORIST

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

A PATENT has been taken out on a hot-bed sash frame, the iron frame of which is fitted into a wooden frame.

THE International Horticultural Exposition in St. Petersburg in 1899 will take place from May 5 to May 15, under the protectorate of the emperor. The exposition will be held in the palace of the imperial Taurus garden, 35,000 roubles having been granted for repairs.

PROF. J. L. BUDD states that wood alcohol is fully as effective as grain alcohol in the preparation of liquid grafting wax and at one-third the cost. Wood alcohol is poisonous to animal life, but its sale is not surrounded with the legal restrictions imposed by many states upon traffic in the grain product.

DESPITE the wide publicity which has been given the operations of the palm swindler his business continues to thrive. Within the past few days he has confidenced florists through Iowa from Clinton to Cedar Rapids. At the former place he secured from Andrew Bather a dozen plants the smallest of which was worth $2.50.

THE Morris County Gardeners' and Florists' Society has promulgated its rules and premium list for its third annual exhibition to be held at Morristown, N. J., November 1 and 2. There are five classes for chrysanthemums, four for roses, two for carnations, three for violets, five for groups of plants, two for amateurs and seven for vegetables and fruits. Cups and liberal cash prizes are offered in each. C. H. Atkins, of Madison, N. J., is secretary.

Catalogues Received.

Nanz & Neuner, Louisville, Ky., bulbs and nursery stock; D. S. Grimes & Son, Denver, Colo., pine tree seeds; Horace Perry, Roleta, Tenn., tree seeds; Reinberg Brothers, Chicago, Ill., carnation plants; Geo. Hancock & Son, Grand Haven, Mich., carnation plants; S. Jacobs & Sons, New York, N. Y., glass; J. M. Thorburn & Co., New York, N. Y., bulbs; Williams & Sons Co., Batavia, Ills., labels; Krelage & Son, Haarlem, Holland, bulbs; Gebruder Van Velsen, Overveen near Haarlem, Holland, bulb; M. S. Beyer, Chemnitz, Germany, bulbs; Herm. A. Hesse, Weener, Prussia, plants; August Rolker & Sons, New York, N. Y., jardinieres; Geo. M. Kellog, Pleasant Hill, Mo., florists supplies; D. B. Long, Buffalo, N. Y., catalogues; Thos. Meehan & Sons, Germantown, Pa., trees; Holton & Hunkel Co., Milwaukee, Wis., bulbs; W. L. Smith, Aurora, Ill., roses; T. W. Daudey, Hzn., Haarlem, Holland, bulbs

Cut Flower Price Lists Received.

Bassett & Washburn, Chicago; Holton & Hunkel, Milwaukee; Cincinnati Cut Flower Co., Cincinnati; Ellis & Pollworth, Milwaukee; S. S. Pennock, Phila.

Greenhouse Building.

New Bedford, Mass.—Arthur Ashley, house 40x200.

Pontiac, Ill.—W. J. Miller, house 10x57.

Sabula, Iowa.—W. B. Lovell, one commercial house.

Chicago, Ill.—Guardian Angel Orphan Asylum, three houses each 23x140.

Chester, Pa.—David Wilson, large addition to his establishment.

Danville, Ill.—N. Admiral, two houses, 18x80.

Harrisburg, Pa.—J. D. Brenneman, one violet house.

Framingham, Mass.—Wm. Nicholson, one house, 12x100.

Woburn, Mass.—Charles Cummings, one house, 18x75.

Waverly, Mass.—E. R. Pierce & Son, one house, 24x300.

Brookline, Mass.—Geo. F. Stone, two houses, each 45x130.

Shrewsbury, Mass.—H. A. Cook, carnation house, 33x150.

Williamsport, Pa.—Evenden Bros., carnation house, 51x160; violet house, 12x160.

Newark, N. Y.—Jackson & Perkins Co., three houses, each 14x90.

St. Paul, Minn.—C. Hansen, one violet house, 11x120.

Waverly, Mass.—W. W. Edgar, one house, 16x120. R. E. Lassman, two commercial houses.

St. Paul, Minn.—Carlsen & Lauritsen, rose house 18x30. L. L. May & Co., fern house 6x100.

Philadelphia, Pa.—P. M. DeWitt, carnation houses, one 20x100, one 10x100.

Coldwater, Mich.—T. V. Canrite, house 20x90.

Notes and Comments.

Mr. Grove P. Rawson has taken occasion to record exceptions in your contemporary to the comments recently made in your columns by the undersigned about watering. There is no practical reason for his action, apparently, to the working florist, for he has certainly not disproven what I have taken great pleasure in stating upon this, one of the most important details in plant growing, whether it be indoors or out, and whether the advice as to the time of day water should be given to plants be for the benefit of the amateur or florist.

Sound advice upon any given subject, whether horticultural, floricultural or anything else, is at all times best, whether the products thereby produced be for pleasure or profit. I was pained at the tone assumed by Mr. Rawson. He could not have caused himself to appear more antagonistic had he himself given the objectionable information to the daily paper adversely commented upon.

This theory of always watering at night in summer-time is an antiquated notion, handed down to us, possibly, by some one of the old writers among our European forefathers, which has long since been exploded in this and other countries, but still remains current through writers of the characteristics possessed by Mr. Rawson.

One would naturally expect something more substantial from Mr. Rawson after reading his autobiography recently published, had not his picture appeared at the same time, for in that he looks like anything but a person who could instruct in the practical details of gardening obtained from personal experience. Appearances in photographs—grotesque though they sometimes are—may not always convey a correct idea as to the real capabilities of the original; however, the picture referred to must have met with his approval or it would not have appeared where it did.

To return to what Mr. Rawson had to say anent watering, to the effect that "To water plants in a shallow vase at mid-day in the broiling sun will frequently scald tender plants and vines," and he adds, "this is no unusual experience." To me this is so unusual that it had never happened either under my care or observation in not less than 30 to 40 years' experience. I do not advocate using a shallow vase in which to grow plants in summer-time, but I do advise watering a vase—deep or shallow—more especially the latter, at mid-day if the soil is dry, rather than postpone until evening the application of that welcome element—water—to plant life, especially when the weather is hot and dry.

I find some difficulty in restraining my impatience in referring to another statement made by our friend from Elmira, which is to the effect that "nature has sense enough to so equalize atmospheric conditions as not to parboil vegetation." No sane body will dispute nature's wisdom, but what are we to infer from what our objector has said? I take his meaning to imply that if watering is done under the broiling hot sun that the vegetation to which the water is applied would be parboiled. Nothing could be farther from the truth, and if Mr. Rawson will be prevailed upon to come into closer touch with nature and practical floriculture, such statements would never more be made. To parboil vegetation the water to be applied to either the foliage or the roots would have to be at least 212° and the soil in which they were existing would have to be at a temperature no lower, or very little lower, than the boiling point. The absurdity of such statements appeals to everyone, whether practical, theoretical or solely cynical.

It has been my pleasure, as it has been my duty, to water at all hours of the day, especially in summer, and if I must confess, have frequently watered after dark, and, with the judgment that I have at command, without the slightest ill effects, apparently, to the vegetation operated upon, but, on the contrary, it flourished like every practical gardener, florist or amateur would expect it to under intelligent administration. Most practical florists do their watering in the morning, both summer and winter, and in summer time look over it again about noon. I have watered carnations all day long; also cannas, crotons and every other plant under cultivation at intervals during the day. Only a short time ago, when the recent heated term was at its worst, I experienced a great deal of satisfaction in watering some croton beds I have here all one afternoon with the broiling hot sun pouring down upon us with its fierce pitiless rays, so to speak; both foliage and root were abundantly supplied, and it is with pardonable pride that I point to these tropical products of nature, feeling that had I not given them water when I did the plants would have seriously suffered and would not now be objects of gratification. It is not wrong to sprinkle young rose plants, even, with water in the early afternoon after a cloudy spell in summer time, when the sun is shining; at least I have not found it so, and the

oftener it is given during a bright hot day the more the plants enjoy it and are improved largely in consequence.

Mr. Rawson's stand is wrong no matter from what point of view it is taken, and he has made a serious error in being drawn into the position he now occupies.

E. L.

Chicago.

A BUSY WEEK IN CERTAIN LINES OF CUT FLOWER ACTIVITY.—WHITE BLOOMS FOR DEAD SOLDIERS.—SHIPPING TRADE.—STOCK CONDITIONS.—A CASE OF BANKRUPTCY.—NOTES AND COMMENTS.

The week has seen no appreciable increase in the quality or quantity of flowers, but has been remarkable for the demand for white stock both at home and abroad occasioned by the funerals of members of the volunteer army who have returned to their own country only in time to die.

The hot weather has had its usual effect upon all lines of stock and first-class flowers are hard to find. Beauties are now quite plentiful and have excellent stems, but many of them are more or less faded by the hot sun. However, they fetch $3 per dozen. Carnations, except the white and pink varieties, are in over supply. Portia seems to be a prolific bloomer these days, at least all the commission men have more or less of this variety which can not be disposed of except at a sacrifice. The aster and sweet pea crops are considerably diminished.

L. C. Washburn, of Bassett & Washburn expresses the general situation when he says that business has been so good along certain lines that in the past few days it has been difficult to secure sufficient stock to meet the demand. The blooms are not coming along as fast as is desired, but, with cool weather, conditions will undergo a very considerable change.

Mr. Washburn comes in from Hinsdale every morning upon the same train which brings the cut from his establishment. He is his own bookkeeper and cashier during Mrs. Horton's vacation, and before the cars fairly stop beneath the big train shed at the Union station he swings off and makes a dash for his place of business. Once arrived there, off goes coat and vest and he at once "gets busy." Mr. Washburn says he is now paying for the fun he had out west last month.

E. C. Amling states that his summer's business has exceeded his expectations and that he anticipates an excellent fall trade. His experience is probably that of many other houses in the commission trade.

E. H. Hunt has enjoyed an excellent shipping trade this week. "The Old Reliable" is not to be outdone by any of the younger fellows.

J. C. Silliman, 118 Ogden avenue, is the first Chicago florist to place himself within the folds of the new bankruptcy law. On Wednesday he, through his attorney, Fred. S. Baker, Room 702, 84 La Salle street, petitioned the Superior Court to declare him a bankrupt. His schedule shows indebtedness of about $2185 and his assets, above his exemptions, are less than $100. The failure catches a great many of the wholesale and commission men but few of them are involved for more than a few dollars. On Thursday the store was opened under Mrs. Silliman's name pending an adjustment of affairs.

C. P. Hughes, of the Illinois Cut Flower Company, has returned from a two weeks' outing at Hillsdale and Adrian, Mich

Swain Nelson, the venerable head of the firm of Nelson & Son, has presented the Chicago Historical Society with the original plan of Lincoln Park, made by him in 1865, when the tract was but sixty acres.

George Walther has trebled the capacity of his greenhouses at the corner of Sixty-third street and Eggleston avenue.

The Guardian Angel Orphan Asylum is building three greenhouses, each 23x140.

Visitors in town: Mr. and Mrs. W. H. Elliott and son and Mr. and Mrs. Harry Siebrecht, returning from their western trip; M. Rice, en route from Omaha to Philadelphia; J. M. Cole and wife, Peoria; W. Ellison, St. Louis; C. Boetscher, Canal Dover, O.; Herbert Heller, of the South Park Floral Co., New Castle, Ind.

Milwaukee.

Milwaukee street is to be strengthened as a flower center by the addition of another retail establishment, at the corner of Mason street. The name to be on the sign has not yet been made known, but the promoter is well acquainted with affairs in the locality and will have a name ready in due time.

Binzel & Kellner have been notified that their new store will be complete by October 1, and they are now making preparations for a fine display.

The Whitnall Floral Company has disposed of its good will and fixtures to Alexander Klokner, who will conduct the business at its present location without interruption. The unfinished business of the corporation will be completed without delay, after which it will be dissolved.

C. B. W.

NEW CASTLE, IND.—The South Park Floral Co. report their stock looking fine and that prospects for farm crops in their section were never better. They have increased their plant by two carnation houses each 20x120 feet and one violet house 12x120 feet.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED—By gardener and florist, single, 40; first-class refs. J J, care Am. Florist.

SITUATION WANTED—As traveling salesman; experienced. Best of references. Address C D B, care American Florist.

SITUATION WANTED—As florist; 6 years' commercial experience; single; private or commercial. References. Address 1 H A, Warren, O.

SITUATION WANTED—As fireman or general greenhouse work; 15 years' experience, middle age, single, sober. J J, care 1110 N 2d St., Philadelphia.

SITUATION WANTED—By competent young florist; 10 years' experience; position in store as salesman and designer; married. Best references. State wages. Address C F, care Am. Florist.

SITUATION WANTED—By first-class designer, cut flower worker and decorator. Well posted in the care and handling of palms. Western states preferred. Good references. Married. Address M R, care American Florist, Chicago.

SITUATION WANTED—By experienced florist as foreman: good commercial or private position. Specialties, fine roses, carnations, 'mums, violets, etc. good designer. Best references. Address FLORIST, P. O. Box 547, Alliance, O.

SITUATION WANTED—By young man of sober, industrious habits, to learn general florist business with some good retail establishment. Illinois or Iowa preferred. Address X I X, care American Florist, Chicago.

SITUATION WANTED—By a young man of 28 years, German, as assistant in commercial or private place; 12 years' experience in general greenhouse work and bedding. Address JOHN C. KRAGES, 1947 Brook St., Louisville, Ky.

WANTED—A grower for roses, carnations and 'mums. Address, giving wages and experience, M, care American Florist.

WANTED—Young lady for floral store, one who can make up bunches, etc., and otherwise familiar with florist store. Address A. L. THRALL, Jamestown, N. Y.

WANTED—Competent, practical and responsible grower to take charge of store and greenhouses of wholesale and retail florist business in a western city. Address B B, care American Florist.

WANTED—Assistant foreman who is capable of growing roses, carnations and general greenhouse stock. Wages $20 per month and board. Steady place. Address M I, care American Florist

WANTED—An A No. 1 saleslady for retail flower store. Must have experience in design work. The right place for the right party. Address and give references to A. KLOKNER, 438 Milwaukee St, Milwaukee, Wis.

WANTED AT ONCE—A good all round man; must understand growing roses and carnations, also pot plants. $20 per month and board. No drinking man need apply. Address OHIO BOY, care American Florist.

FOR SALE—Four greenhouses, near y new. Good retail stand. A. CLAUS, Springfield, Ill.

FOR SALE—At a bargain, 2,000 square feet of double thick glass, mostly 10x16, some 8x10; also sash bars. Address THEO. NOEHLE, Green Bay, Wis

FOR SALE—Four greenhouses, 6 000 feet glass, well stocked; business good in a growing Pennsylvania town. A bargain. P, care American Florist

FOR SALE OR RENT—Good retail stand, 5000 feet of glass (new), has never paid less than $1300 per year net. Must buy stock. Reason for quitting, failing health. Address ILL, care Am. Florist.

FOR SALE—Leading florist business in western city: store connected with conservatory in principal hotel; 6000 feet of glass, and houses for 10,000 feet more, all except the roofs, in good condition, including plants, and full equipment. Terms to suit. Address WESTERN, care American Florist.

FOR RENT—To reliable party, 11 greenhouses, 16,000 ft. glass, newly rebuilt last year; also store, 7-room house and barn. Business established 15 years. Finest location in Chicago. Or will sell greenhouses separate. Cause, poor health. Address GARFIELD PARK FLORAL CO., Mrs. Decker, Prop. 1688 W. Madison St, Chicago.

FOR RENT.

Three (3) greenhouses, also 2 story frame and brick basement residence, all situated at Rogers Park, 3 blocks from R. R. station and 2 blocks from electric cars. Three (3) large cemeteries and a number of smaller ones close by. Inquire or address P G, 127 Wells St., upstairs, Chicago.

FOR SALE

AT A BARGAIN.

A hot water boiler, suitable for heating about four or five thousand feet of glass. Also about eight hundred feet of 4-inch pipe. Address

W. P. HARVEY, Geneva, Ill.

FOR RENT.

Large greenhouse situated in the East End, Cleveland, Ohio. Good location for business. Boiler and piping almost new. For full particulars address

IRI REYNOLDS,

Executor of the Estate of Andrew Platt.

2259 Euclid Ave., Cleveland, O.

CHICAGO LOTS FOR SALE

One block from corner of Lincoln Avenue and Wellington Street, a bunch of lots at $20.00 per front foot; sewer and water. Suitable for greenhouse purposes.

JAMES ROOD, Jr.,

Tel. Main 3868. Room 5, 154 Lake St., Chicago.

FOR SALE OR RENT

VERY CHEAP.

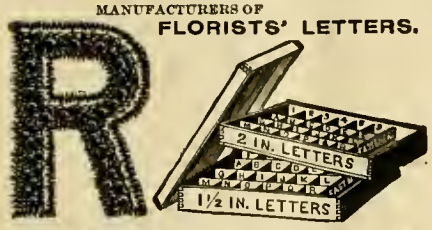
The largest greenhouse establishment in Leavenworth, Kansas, consisting of four greenhouses (about 9000 square feet of glass), dwelling house, etc., on one acre of land, within four blocks of an electric car line, reaching both the Fort and Soldiers Home. Creek runs through ground. Heating apparatus and water pump in best condition. Greenhouses need some repairs. Price, $1,500. Easy payments. Worth twice the money. Rent $150 if party keeps greenhouses in repair. Immediate possession given. Address

CHARLES F. C. SMITH,

116 South Fifth St., Leavenworth, Kan.

Boston Florist Letter Co.

MANUFACTURERS OF
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 ½ or 2-inch size, per 100, $5.00. Script Letters, $4. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

Mention the American Florist.

THE WABASH R. R. COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A.,
387 Broadway, New York City.
J. D. McBEATH, N. E. P. A.,
5 State Street, Boston, Mass.
C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

M. Rice & Co.

Exclusive Importers and Manufacturers of....

Florists' Supplies

25 N. 4th Street, - PHILADELPHIA, PA.

H. BAYERSDORFER & CO.

Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

New Catalogue of all FLORISTS' SUPPLIES on application. For the trade only.

H. BAYERSDORFER & CO.
50, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

FLORISTS' MUTUAL
FIRE INSURANCE ASS'N

Application Blanks and Prospectus Ready....
Write now. Delays are dangerous.

W. J. VESEY, Sec'y, - Ft. Wayne, Ind.

HAIL

For Insurance Against Damage by Hail Address
JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

Now Ready!

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DIRECTORY Of Florists, Nurserymen & Seedsmen of the United States and Canada. Price Two Dollars. In Flexible Leather Binding, Three Dollars.....

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324 Dearborn St., CHICAGO, ILL.

Pittsburg Cut Flower Co. Limited.

705 Penn Avenue, PITTSBURG, PA.

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Long Distance Phone 2157. Consignments of Choice Cut Flowers Solicited.

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ESTABLISHED 1866 **EMIL STEFFENS** SUCC.TO N. STEFFENS. AND STEFFENS BROS.

MANUFACTURER OF
FLORISTS' WIRE DESIGNS & SUPPLIES
335 EAST 21ST ST. NEW YORK CITY.

Wholesale Flower Markets

CINCINNATI, Sept. 1.

Roses, Brides, Bridesmaids	2 00@ 3.00
" Meteors	3.00
" Perles	2.00@ 3.00
Carnations	.75@1 00
Tuberose	3.00
Lily of the valley	4.00
Smilax	10.00@12.50
Adiantum	1.00
Asparagus	50.00
Asters	.75@ 1.00
Common ferns	.15

ST. LOUIS, Sept. 1.

Roses, Beauties	3 00@15.00
" Meteors	2.00@ 5.00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	2.00@ 3.00
" Kaiserins	2.00@ 6.00
Carnations	1.00
Asters	1.00@ 2.00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@75.00
Gladioli	2 00
Tuberose stalks, single and double	3 00

MILWAUKEE, Sept. 1.

Roses, Beauties	5 00@20.00
" Brides, Bridesmaids	2 00@ 4.00
" Perles	1 00@ 3.00
" Meteors	2 00@ 4 00
" Kaserins	2.00@ 5.00
Carnations	.50@ 1.00
Sweet peas	08@ .10
Gladioli	2.00@ 3.00
Smilax	10 00@15 00
Adiantum	.75@ 1.00
Common ferns	.20
Asparagus	50.00
Asters	.50@ 1 00
Common ferns	.20

BUFFALO, Sept. 1.

Roses, Beauties	5.00@25 00
" Brides, Bridesmaids	2 00@ 6.00
" Meteors	2.00@ 6.00
" Perles, Niphetos	1.00@ 3 00
" Kaiserins	2.00@ 6.00
Carnations, ordinary	.50@ 1 00
" fancies	1.00@ 2.00
Lily of the valley	4 00@ 5 00
Smilax	10 00@15.00
Auratum lilies	8.00@10.00
Album roseum lilies	5 00@ 6.00
Asters	.50@ 1 50
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Gladioli	1.00@ 2 00

LOUISVILLE, Sept. 1.

Roses, Beauties, per dozen	.75@1.50
" Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" Kaiserins	2.00@ 4 00
" Perles	1.50@ 2.00
Carnations, fancy	1.25@ 1.50
" common	1.00
Mignonettes	.25
Smilax, per dozen	1.25@ 2.00
Adiantum	.75
Asparagus, per string	.50
Dagger ferns, per M	$1.00
Fancy " "	1.50
Asters	1.00@ 1.25

THE AMERICAN FLORIST'S
COLOR CHART

is now accepted as the standard in preparing color descriptions, by many foreign houses as well as in America.

PRICE 15 CENTS POSTPAID.
AMERICAN FLORIST CO., 322 Dearborn St. Chicago

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

WM. F. KASTING WHOLESALE COMMISSION FLORIST....
495 Washington St., Buffalo, N. Y.
Also Dealer in Florists' Supplies and Wire Designs

Out of Town Trade,

that oft absent feature that every florist covets, is gotten and readily held by means of LONG'S FLORAL ART CATALOGUE....

Its sixteen pages include Cut Flower list, ordering details, code, etc., and ninty-six Arrangements finely illustrated and priced. Exclusive in character.

Sample copy with price list, 25 c's. in stamps.

Dan'l B. Long, Publisher Buffalo.

John Conley & Son,

Manufacturers of
TIN FOIL
2 AND 4 DOMINICK STREET, New York.

Hardy Cut Ferns!

SPHAGNUM MOSS, 40c BBL.

Bouquet Green, Galax Leaves, Laurel Roping, &c. &c. Everything in green line always in stock at

H. E. HARTFORD'S, 18 Chapman Place, BOSTON.

BRILLIANT GREEN AND BRONZE
GALAX LEAVES,

For Decorating and all Florists' Designs.
CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C

SEPTEMBER IS NOW HERE.

The Florists expect to do business from this time on.

It will be to your interest to place your orders with the

ILLINOIS CUT FLOWER CO.

J. B. DEAMUD. 51 & 53 Wabash Avenue, CHICAGO.
Phone 1143 Main.

V. M. & W.

Wholesale Florists

47 Wabash Avenue, CHICAGO.

E. C. AMLING

Wholesale Cut Flowers

51 Wabash Avenue,

W. S. HEFFRON, Mgr. CHICAGO.

Wholesale Flower Markets

CHICAGO, Sept. 2.

Roses, Beauties.....per doz,	.50@2.50
" Brides	2.00@ 3.00
" Kaiserins	2.00@ 4.00
" Bridesmaids	1.00@ 3.00
" Perles	1.00@ 3.00
" Meteors	2.00@ 3.00
Carnations	.75@ 1.00
Asters	.75@ 1.00
Auratum lilies	6.00@ 8.00
Harrisii	3.00@ 4.00
Lily of the valley	3.00@ 5.00
Sweet peas	.15
Gladioli	2.00@ 4.00
Adiantum	1.00
Common ferns	.20
Smilax	8.00@10.00
Asparagus	40.00@75.00

Tell your wants in the American Florist.

Reinberg Bros.

Wholesale Growers of **CUT FLOWERS**

600,000 FEET OF GLASS!

We can fill all orders on short notice with all leading varieties of Roses and Carnations.
We ARE Headquarters for Fine AMERICAN BEAUTIES. Give us a trial and convince yourself.

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AND FLORISTS' SUPPLIES.

Agents for the Hinsdale Rose Co. Special attention paid to shipping orders.

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Telephone Main 3208. CHICAGO.

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.....ROSES, and a full line

Headquarters for the South West.....

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Wholesale Florist,

No. 30 So. 17th Street, - PHILADELPHIA,

Will Open Sept. 1st.

Ten years' experience. Consignments of first-class Roses, Carnations, Violets and other flowers solicited. Every up-to-date facility for handling stock.

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19-21 E. RANDOLPH ST. CHICAGO

WHOLESALE GROWER OF ROSES. DEALER IN CUT FLOWERS.

J. A. BUDLONG,

37-39 Randolph Street. CHICAGO, ILL.

S. B. WINTER,

(Successor to WINTER & GLOVER,)

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HIGH GRADE **CUT FLOWERS,**

PACKED RIGHT,

so they will reach you in just as good condition as they reach us.

WIRE DESIGNS: A Full Line. Write us for our Illustrated Catalogue.

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Special facilities for shipping south. Unequalled returns for good stock. Open night and day.

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Bassett & Washburn

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A. L. RANDALL

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Write for special quotations on large orders.

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Wholesale Florist,

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ST. LOUIS, MO.

A complete line of Wire Designs.

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The American Florist Company's Directory of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Price $2.00. In Flexible Leather Binding, $3.00. Fully revised to date with upwards of **3,000 New Names**

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EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

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Choice Carnations Choice Roses

Traendly & Schenck

NEW YORK CITY

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Commission DEALER IN Cut Flowers,

44 WEST 29TH STREET,
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THE BEST MARKET IN NEW YORK.
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WELCH BROS., Proprietors.
The New England Headquarters for the best grade of flowers at all seasons of the year....

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THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,
112 and 114 West 24th Street,

Telephone 733—18th. NEW YORK.
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Special Attention Given to Shipping Orders.
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JOHN YOUNG,

ROSES, CARNATIONS, VALLEY
and all other choice cut flower stock.
51 W. 28th Street, NEW YORK.
Price list on application.

Wholesale Flower Markets

NEW YORK, Aug 31.

Roses, Beauties	5.00@25 00
" Bridesmaids, Testouts, Brides	.50@ 3 00
" Morgans Perles	50@ 2 00
" Meteors, Kaiserins	2.00@ 4 00
Carnations	50@ .75
Lily of the valley	1 00@ 2.00
Smilax	8 00@10 00
Asparagus	40.00@50.00
Cattleyas	40 00
Asters	.25@ .40
Gladioli	.50
Hydrangeas	1 00

BOSTON, Aug. 31.

Roses, Beauties	5.00@25.00
" Morgans, Meteors	2 00@ 4.00
" Brides, Bridesmaids	1 00@ 6.00
Carnations	.50@ 1 00
Lily of the valley	2.00@ 3.00
Smilax	10.00@12.00
Asparagus	50.00
Adiantum	.50@ .75
Asters	.40@ .50

PHILADELPHIA, Aug. 31.

Roses, Beauties	3 00@12.00
" Brides, Bridesmaids	2.00@ 4 00
" Kaiserins, Meteors	2.00@ 6.00
Carnations	.75@ 1.00
Lily of the valley	3 00@ 5 00
Japanese lilies	4.00@ 6 00
Cattleyas	35.00@40.00
Smilax	12 50@15.00
Asparagus	25 00@35 00
Adiantum	1.00
Asters	.50@ 1.00

SAMUEL S. PENNOCK
WHOLESALE FLORIST.
1612-14-16 LUDLOW ST.
PHILADELPHIA, PA.

FINE VALLEY ALWAYS ON HAND.

Asparagus Plumosus Nanus.

Strings 10 to 12 feet long,
50 CENTS.
W. H. ELLIOTT, Brighton, Mass.

Now They're Cheap!!

FLOWERS, ALL KINDS.
PLENTY OF THEM AT
J. K. ALLEN'S 67 WEST 28th STREET, NEW YORK.
TELEPHONE 382 38th St.

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Wholesale Florists
AND DEALERS IN ALL
FLORISTS' SUPPLIES.
4 Ordway Place, BOSTON, MASS.
Cut Flower Consignments Solicited. Best market.

JAMES M. KING

Commission Dealer in
CUT FLOWERS.
Good Money for your Flowers.
Good Flowers for your Money.
49 WEST 29TH ST., NEW YORK.
TELEPHONE 1675 38th St.

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WHOLESALE.
67 Bromfield St., BOSTON, MASS.

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ALWAYS ON HAND:
CARNATIONS,
BRIDESMAIDS,
BRIDES.

JOBBERS IN FLORIST'S SUPPLIES.
FLORISTS' VASES.
Horticultural Auctioneers.
N. F. McCarthy & Co.
84 HAWLEY STREET, - BOSTON.

One Good Flower

is worth fifty poor ones
but is harder to find in
summer.

Give us timely notice and
we will do the best we can

John I. Raynor

49 WEST 28th STREET
NEW YORK CITY.

THOS. YOUNG, JR.

Wholesale Florist
43 West 28th Street, New York.

WALTER F. SHERIDAN,

WHOLESALE
FLORIST,
39 West 28th Street, NEW YORK.
Roses shipped to all points. Price list on application.

ROSES LILIES

JULIUS LANG

53 WEST 30th STREET
NEW YORK
CARNATIONS SMILAX

Edward C. Horan,

34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.
Careful Shipping to all parts of the country.
Price list on application.

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Wholesale Florist,
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Consignments Solicited. Special attention given to shipping orders
Long Distance Telephone 5008 A.

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404-412 E. 34th St. Near Ferry.
Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

Ford Bros...

Wholesale Florists
111 West 30th Street, NEW YORK.
Consignments Solicited. Telephone, 260 38th St.

FRANK MILLANG,

CUT FLOWERS,
WHOLESALE COMMISSION,
408 E. 34th Street,
Cut Flower Exchange. NEW YORK.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

CONNECTICUT growers report serious damage to the onion seed crop, half of it being burned up.

VISITED CHICAGO: S. B. Dicks, representing Cooper, Tabor & Co., London; S. Y. Haines; C. G. Weeber, of Weeber & Don, New York.

SAN FRANCISCO, CAL.—The Sunset Seed and Plant Co. is reported to have assigned August 24 and to have offered thirty cents on the dollar in settlement.

AT Atlanta, Ga., the Alexander Drug and Seed Co., has divided its business and the seed department will now be known as the Alexander Seed Co., with Dan P. Durban as manager.

AT Philadelphia, in the construction of W. Atlee Burpee & Co.'s new warehouse, a terrible accident occurred through the falling of a cornice which resulted in the death of four workmen.

Everett B. Clark.

The president of the American Seed Trade Association is a native of Orange, Conn., and is a typical New Englander. He took up the growing of seeds upon his return from the campaigns of the Civil war and has ever since been identified with the trade. He is president of the



EVERETT B. CLARK

recently organized Everett B. Clark Company, of Milford, Conn. Fred. M. Clark is secretary, and Herbert A. Clark is treasurer. The firm has something over 100 acres in cultivation, growing those staple vegetables which are in demand in New England. Sweet corn is one of Mr. Clark's specialties. What he terms his "money crops" are turnip and onion seed. This year he has nearly fifty acres devoted to these two vegetables. It is Mr. Clark's constant endeavor to keep abreast of modern methods of seed growing and to place upon the market nothing but stock of the highest quality. As a result of years of painstaking endeavor along this line he finds himself with an established reputation and a prosperous, constantly increasing business.

Mr. Clark has been identified with the American Seed Trade Association from the day of its inception. He has been a regular attendant at its annual conventions and has been a tireless worker for the advancement of the aims of the organization. His elevation to the presidency, which occurred at the sixteenth annual meeting, at Old Point Comfort, Va., in June, is but well merited recognition of his services. He is a man of sound judgment and under his guidance the association will hold a straight course in the line of its greatest usefulness.

Nebraska Crop Report.

Since last report, the condition of the crops has changed materially. Sweet corns are in fully as bad shape as before. We will not have over 70 per cent of an average crop.

Muskmelons will make about half a crop; water melons very little if any better. Late plantings of cucumbers will make about 40 per cent of a crop. The earlier plantings will make a little more but the best crops will not yield over 75 per cent of what we ordinarily receive.

Some kinds of winter squash will give a fair yield; somewhat less than the average but sufficient to make a good showing. Other kinds will be light; fruit is not setting, and what did set earlier is dropping off. This is especially true of all the larger varieties of both squash and pumpkin of foreign origin.

Until Saturday, August 20, everything indicated a good average crop, with some things above an average. Saturday, Sunday and Monday were the warmest days we have had in years. This, with the dry condition of the soil, has fairly cooked both vines and fruit. Most of the crops are beyond recovery and fruits are ripening prematurely. There have been no hot winds, but the sun heat was too much even for melons.

BANGOR, ME.—Mr. and Mrs. Carl Beers have returned from their European trip. Their pleasure was terminated by the announcement of the death of Mr. Beers' father.

KALAMAZOO, MICH.—The florists of this city have filed complaint with the attorney general that the incorporated cemetery association here is competing with them contrary to the statute under which it was organized in that it seeks not only to furnish graves but flowers to cover them.

PEORIA, ILL.—A well dressed man attempted to work the palm swindle on J. C. Murray on August 25, but he had not the smoothness of the original confidecer for he failed to meet the delivery boy at the proper moment and at the house to which he had ordered the goods sent all knowledge of the affair was disclaimed. The driver took the stock back to the store and Mr. Murray is $50 ahead on the transaction.

ROCKLAND, ME.—This city has seen a new idea for a sweet pea show carried to a successful conclusion. Last spring the *Courier-Gazette* offered a prize to the lady who should make the finest showing with this flower, and thirteen amateurs asked to have their displays inspected by the judge, Mrs. A. C. Mather, the well-known florist, who awarded the honor to Mrs. E. B. Hastings. Mrs. Hastings had trellises 115 feet long, with vines seven feet high.



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Mushroom Spawn
New importation just received.
Olbs. $1.00; 100 lbs. $7.50 f. o. b. Chicago; $7.00 per 100 f. o. b. New York.
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Tickets on sale for trains leaving Chicago September 16th to 18th, incusive, at rate of $19.00 tor the round trip, and good returning until September 30th. Also cheap rates to all points East. Vestibuled sleeping cars to Boston, and solid train to New York. Rates lower than via other lines. For further information call on or address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (60)

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The Nickel Plate Road will sell excursion tickets from Chicago to Boston and return for trains of September 16, 17 and 18, at rate of $19 00 for the round trip. Tickets will be valid returning until September 30, inclusive. On account of heavy travel at this particular time, those desiring sleeping car accommodations should apply early to J. Y. Calahan, General Agent, 111 Adams St , Chicago. Telephone Main 3389. (58)

MEETING SOVEREIGN GRAND LODGE, I. O. O. F., BOSTON, MASS, SEPT. 19-24.

For this occasion the Nickel Plate Road will sell tickets at rate of one fare for the round trip. Tickets on sale September 16th to 18th, inclusive, good returning until September 30th, inc usive. For particulars address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (59)

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THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
A. L. BROOKE, Pres.; E. ALBERTSON Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

HENRY AUGUSTINE, the Bloomington nurserymen, states that the apple crop of Illinois, is almost a total failure, due to cold while the trees were in bloom.

New York's New Scale Legislation.

Charles A. Wieting, Commissioner of Agriculture for the State of New York, has appointed inspectors under the new law intended to check the spread of San Jose scale and enemies of fruit and other trees. The men selected are: Harris P. Gould, of Ithaca; George Gray Atwood, of Geneva; H. C. Peck, of Brighton, and Charles Young, of Ellenville. These inspectors were selected under civil service rules and will be employed for six months in the year at $100 per month. It will be their duty to visit all nurseries and orchards for the purpose of carrying into effect the provisions of the recent legislation which authorizes the officials to either prescribe treatment for or destroy any trees, shrubs, fruit or nursery stock found to be infested with San Jose scale or any other pest.

The law makes provision for the issue of certificates of inspection to all shippers and prescribes penalties for those who shall sell, ship, transport or deliver any goods commonly known as nursery stock without having attached thereto a copy of such certificate.

While the law will inconvenience nurserymen F. S. Sirrine, the expert in charge of the State Experiment Station of New York, does not think that it will be effective in preventing the spread of the San Jose scale, because that insect is on fruit trees in many private grounds, and is not confined to the nurseries by any means. He does not look for satisfactory results from the attempt to execute the law.

Phlox Decussata Varieties.

Since writing the last notes on the new varieties of Phlox decussata the following have come into bloom.

Derviche—Good; fairly dense spike; flowers of good size and shape; lavender shaded blue, with dark eye; one of the most distinct of the set.

Eterle—Catalogued as similar to Phlox Drummondi; rounded spikes; flowers poorly shaped; dark pink, with indistinct light center.

Fiancee—Spikes very large and compact; flowers large, pure white; the best white variety in the set.

Girondin—Rounded spike; flowers medium size; dark pink; very similar to many others.

Le Mahdi—Spikes much branched; flowers of good size and shape; dark bluish purple; a distinct variety.

Meteore—Pyramidal spikes; flowers of good size and shape; clear rose, with lighter center; not distinct enough from Le Solioel.

Albatre—Dwarf; spikes much branched; flowers of good size and shape; pure white; the best of the dwarf white varieties.

Candeur—Dwarf; pyramidal spike; flowers medium in size; pure white; not so good as Albatre.

Thebaude—Dwarf; spikes branched; flowers of good size and shape; light pink, shaded; dark pink eye.

Amphitryon—Pyramidal spikes; flowers large, well formed, white marbled and feathered with purple.

Astier-Rehee—Spikes rather loose; branched; flowers large, purple, with lighter center and edges.

Wm. Ramsay—Dense, rounded spikes; flowers fairly large, of good shape; dark maroon, with darker eye; very distinct.

Fantome—Dwarf; spike branched; flowers large, purple shading to lavender, purple eye.

Guignol—Dwarf; spike branched; flowers of fair size; lavender shading to white; similar to Fantasie but not bright enough.

Torpilleur—Dwarf; dense rounded spikes; flowers fairly large, well formed; bright pink; not distinct enough from other varieties.

In the phloxes we had from Scotland the flowers are small and the colors common. The most distinct one is Lucy Baltett, spikes rather loose, well branched, flowers rather small, purple tinged blue with silvery white edge; not very bright. Of the older varieties Cross of Honor stands out distinct, with long pyramidal spikes; flowers rather small but well formed; each petal shows a well defined lavender center edged with white.

Out of some seedlings we have had on trial for several years we have propagated two as being distinct: Norwood, a seedling of Eclaire and much brighter than that variety; spike branched, flowers large, well formed; dark clear pink, and R. P. Struthers, rounded spikes, flowers of good size, well formed, bright salmon pink, with well defined dark eye.

Massachusetts. R. N.

NEWBURGH, N. Y.—The property of Robert Brown, who formerly conducted a floral establishment here, has been seized by the sheriff to satisfy judgment creditors.

YORK, NEB.—A new fakir is abroad. He sold numbers of people rose bushes and other shrubs and set them out before collecting his money. After he had left it was discovered that instead of choice roses he had set out weed roots.

FOR FALL '98 AND SPRING '99 DELIVERY
A SPLENDID ASSORTMENT OF
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Clematis, Ornamental Shrubs and Trees, Pæonies, herbaceous Plants, Small Fruits, Fruit Trees.
Special quotations gladly submitted by letter.
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Assorted in 25 Varieties.
My selection $50 per 1000. Descriptive catalogue and price lists for the trade.
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or your neighbor have any reason to wish a change in the manner in which you are listed in our 1898 Directory, drop us a postal card now, to aid us in the work of revision for the next issue.
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1,000,000 Peach Trees
grown on the bank of Lake Erie, two miles from any peach orchards and guaranteed free from Scale, Borers, Yellows, etc. Large stock of Pear, Plum, Cherry, Quince and immense supply of Small Fruit plants. Headquarters for Ornamental Trees and Shrubs. A quarter of a million of
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32 Greenhouses filled with Roses, Palms, Araucarias, Ficus, Dracenas, Pandanus, etc. Will have immense stocks of best Holland Bulbs for fall. 45th year. 1000 acres. Correspondence and personal inspection solicited.
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NURSERY GROWN. TRANSPLANTED.
Catalpa Speciosa, Norway Maple, Sycamore Maple, Wier's Cut Leaf Maple, Silver Maple, Scotch Elm, Huntington Elm, English Elm and American Elm, 3 to 4-inch caliper, $4.00 each, $35.00 per dozen, f. o. b. Rochester.
Norway and Sugar Maple and American Elm, 2 to 2½-inch caliper, $2.00 each, $15.00 per dozen, $100.00 per 100, f. o. b. Rochester.
For prices on a large assortment of shade trees of smaller sizes send for our trade price list.
W. S. LITTLE & CO.
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The Royal Tottenham Nurseries Ltd. Late of A. M. C. Jongkindt Coninck
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WHOLESALE GROWERS OF
Hardy Perennials, Aquatics (especially new and scarce varieties), Azaleas, Rhododendrons, Hydrangeas and Conifers, beg to announce that their catalogue containing a good many rare and new plants is in the course of preparation and copy may be had on application.

....AUTUMN 1898....
One Million
Flowering Shrubs; full assortment; all sizes.
Half Million...
Deciduous Trees for street, lawn and avenue planting.
200,000 Vines, Iris, Clematis, Actinedia and other sorts. Correspondence solicited.
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HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
JACOB W. MANNING,
The Reading Nursery, READING, MASS.
ESTABLISHED 1854.

Fabiana Imbricata.

Known since the end of the last century and coming from Sonth America, Fabiana imbricata is the only one of fifteen varieties which has received consideration as a pot plant. As a small plant F. imbricata has great resemblance to an erica, while shrubs from four to five yards high, as they are sometimes met with in south European gardens can hardly be distinguished from a tamarix.

This botanically remarkable plant is a member of the solanaceæ, and stands between the genus nicotiana and petunia, containing sharp (acid or pnugent) substances for which it is used in its home, Chile, for malignant diseases of domestic animals. Its tubular flowers are pure white, with a little green tint on the bottom of the throat. Its main flowering period is from the end of March lasting through May. The blooming period, however, is easily changed according to the temperature of the house.

The main point in its culture is the constant raising of young plants, these being the handsomest and most constant bloomers. Plants older than three years are worthless. The plants want to be kept wet with occasional manuring during the growing period; full exposure to the sun in summer, a light house in the winter. They should be planted out during the summer months and repotted in September. Leaf mold or heath earth, or a mixture of both, is the required soil.

Spring struck cuttings give nice bushy plants the following year, which are covered with flowers, especially if pinched several times when the plants are young. A Berlin florist grows these by the thousand and has made money out of this "white erica," as people call his Fabiana. It is excellent for pot culture and cutting and can be trained to standard forms.—*Die Gartenwell.*

Pittsburg.

LUDWIG RETURNS FROM OMAHA.—BOTANICAL SOCIETY ENLISTS THE AID OF FLORISTS.—JOTTINGS.

Gustave Ludwig has returned from the S. A. F. convention, and reports that they had a good time, were well entertained and that the meeting was a success, but that only a comparative few were there from the east. He returned alone, his wife and family going to Gordon, Neb., about 400 miles from Omaha, to visit her sister living there.

T. P. Langhans has been east on business for the Pittsburg Cut Flower Company, and now they are busy arranging the storeroom for the opening.

James Semple of Bellevue, has joined the Botanical Society of Western Pennsylvania and with M. T. Shafer, of the society, will visit about five adjoining counties for the purpose of securing specimens of the flora of this section for the collection which the society is gathering. In all probability at least three of our florists will accompany them.

Julius W. Ludwig and wife have returned from Atlantic City and report having enjoyed a splendid time.

Mr. Flemm, of Breitenstein & Flemm, has the sympathy of the florists here, his father having died after an illness of about a week. He lived at Freeport, Pa., and was buried at that place. REGIA.

MT. JOY, PA.—Misses M. E. and R. Hoffer have enjoyed such a rapidly increasing business as to necessitate more commodious quarters. John S. Hamaker has secured the contract to enlarge their greenhouses.

DRACÆNA INDIVISA.

A splendid stock of strong field-grown plants, @ $10.00 per 100.

MARIE LOUISE VIOLETS.

A few more fine young plants, @ $20.00 per 1000.

SMILAX. Strong, 3-inch, $2.50 per 100.

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REX BEGONIA

	Per 100
34 Named Varieties, 2-inch pots	$8.00
34 " " Rooted Cuttings	4.00
Mixed " " "	2.00
" " 2-inch pots	4.00

Write for prices on other stock. Terms Cash or C. O. D.

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100,000 Commercial Ferns in the best varieties out of 2-in. pots, grown in cool houses and well-aired. No better stock offered at double the price; $2.50 per 100, $20.00 per 1000, $50.00 for 3000. Also a fine lot of the LEADING CARNATIONS for sale, $3.00 to $5.00 per 100.

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Orchids!

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5000 FIELD-GROWN
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WE OFFER FOR THE NEXT 12 DAYS

3825	Field-grown Carnations	@ 3 cts.
400	" " Dahlias	@ 5 cts.
363	" " Roses	@ 3 cts.
30	Begonias, in 2 to 5-inch	@ 5 cts.
231	Chrysanthemums, 4-inch pots	@ 7 cts.

Lists furnished on application. The lot for $150 cash.

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FERNS for jardinieres, in six varieties, 2¼-inch pots (ready for 3-inch pots), $35.00 per 1000.

SIEBRECHT & SON, New Rochelle, N. Y.
TELEPHONE 151.

Good Smilax to make room. 12½ cents per full string. Express prepaid..... Orders filled on short notice. Cash with order, please.

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50,000 FIELD-GROWN CALIFORNIA VIOLET Plants for sale, $5.00 per 1000. Cash with order.

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The Largest Stock of Plants IN THE WEST

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EXTRA HEAVY Clean Stock!

Kentia Belmoreana

6-in., 5 to 7 leaves.....$15 to $24 per dozen.
5-in., 5 to 6 leaves..... 12 "

Kentia Fosteriana

6-in., 5 to 6 leaves.....$12 to $18 per dozen.
5-in., 4 to 5 leaves..... 9 to 12 "

FIELD GROWN CARNATIONS...

A fine lot will be ready for Sept. delivery.

THE COTTAGE GARDENS
QUEENS, N. Y.

PALM Seed. FRESH ON HAND

All kinds of PHOENIX SEEDS.

A new shipment of **Kentia Belmoreana and Forsteriana** will arrive in a few weeks....

J. L. SCHILLER, 404 East 34th St., NEW YORK CITY.
Mention Am. Florist when writing.

CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3-inch pots. Acknowledged by florists as the finest strain of Primroses to be had. Single vars in most named colors. $2 50 per 100, $20 00 per 1000; Double Red, Rose and Criatata, $4 00 per 100. Extra plants added to help pay expressage. Adams and U. S. Express. Cash with order, or one-half cash and balance C. O. D.

JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.

UMBRELLA PLANTS

Fine 2½-inch plants, $2 50 per 100.

SONNENSCHMIDT & JUNGE,
456 E. Washington St, INDIANAPOLIS, IND.

Asparagus Sprengeri

50,000 Plants in 2½-inch pots, $5 00 per 100, express; 24 for $1.50 by mail. Specimens for 8-in. pots, $6 00 per 12.

A. BLANC & CO., Philadelphia

E. G. HILL & CO.,
RICHMOND, INDIANA.

Cycas Revoluta Stems

Popular sizes, 3 to 6 lbs each.....10 cts. per lb.

Helpful Reminders.

A very common mistake is for growers to make an effort to provide room for winter forcing stock to the detriment of other things. A well balanced plant is as essential as a well balanced stock, but very few growers have a cool house for oleanders, agaves, azaleas, hybrid roses in pots, hydrangeas, deutzias and other plants that are best cool for a great portion of the winter. Such a house is useful, as it makes the proper care of such stock more simple and does for keeping plants of chrysanthemums, stevias and others out of bloom. A good cold house is indispensable to a well managed concern and this is the time to remind you of it.

Callas that have been dried and rested should be potted now; it is best to separate the several sizes into groups and give each one a pot proportionate to the size of the bulb. They are the better for remaining outside until well rooted. Callas want a rich and porous soil. If the soil shrinks from the pot and forms a hard ball when allowed to dry the roots will be damaged, for when the soil contracts upon them they are helpless; they become weakened and decay will occur; the trouble does not show itself above the ground, but apparently healthy plants will fall over and you will find that the roots and stem are slimey and have no substance. Quite a number of growers have become alarmed and want to know "how to fight the disease." Don't fight; give your callas judicious treatment.

Clematis paniculata is now blooming, and do not forget to save the seed.

This is a good time to sow poppy seed in places where you wish them to become naturalized.

Have your warm house in readiness for fire now, and get poinsettias in place at once, as nothing is gained by having them out longer and considerable is risked.

C. B. W.

Montreal.

GARDENERS' AND FLORISTS' CLUB GIVES ANOTHER OF ITS VERY SUCCESSFUL MONTHLY SHOWS. — MANY PREMIUMS AWARDED. — AUGUSTE PINOTEAU HONORED.

The August flower show of the Gardeners' and Florists' Club was well attended and the exhibits were unusually numerous and attractive. Pansies, asters, dahlias and begonias were the principal attractions, although some very fine miscellaneous collections of plants and cut flowers won premiums. There were thirty-eight classes, and in thirteen of them C. A. Smith, gardener to T. A. Dawes, won first place; he also won six seconds. George Trussell, gardener to Mrs. J. H. R. Molson, won seven firsts and seven seconds. Fred Bennett, gardener to R. MacKay, won seven firsts and two seconds. J. Stenning, gardener to W. Yuile, secured three firsts, as did J. Pidduck and W. Horobin. T. Martell, the florist, won two firsts and J. Eddy received one. There were a number of other exhibitors who won minor premiums and who received favorable mention.

Auguste Pinoteau, the head of the city's floricultural forces, has been honored by the Republic of France which has created him a Chevalier of the Ordre du Merite Agricole, as a reward for his success as an horticulturist. The decoration was bestowed upon the recommendation of the French Minister of Agriculture, and this is the first time that a Frenchman resident in Canada has been so honored.

ROSE PLANTS! OUT OF 2½ INCH POTS

AMERICAN BEAUTIES.....$5.00 per 100. $45.00 per 1000.
METEORS..... 3.00 per 100. 25.00 per 1000.

Wietor Bros., Successors to... ROGERS PARK FLORAL CO.

Wholesale Growers of CUT FLOWERS ROSE PLANTS... 51 WABASH AVENUE, ...CHICAGO...

40,000 FIRST QUALITY FORCING ROSES. READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

AMERICAN BEAUTY — LA FRANCE — PRESIDENT CARNOT
3-inch pots, $8.00 per 100. 4-inch pots, $12.00 per 100.
METEOR — KAISERIN — SUNSET — BON SILENE
PERLE — MME. HOSTE — NIPHETOS — BRIDE
BELLE SIEBRECHT. 3-inch pots, $7.00 per 100. 4-inch pots, $10.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphetos, Kaiserin, 3 and 4-inch.
Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted.

A. S. MacBEAN, Lakewood, N. J.

ROSES

Maids, Brides, Perles and Meteors, in 4-inch pots, $8.00 per 100.
Kaiserin, Perles, Meteors, Maids and Brides, in 3-inch pots, $6.00 per 100.
VIOLETS, Marie Louise, in 2½-in. pot, $3.00 per 100.
BEGONIA REX in 4-in. pots.....$20.00 per 100.
All of the stock is in fine healthy condition.

WM. F. KASTING, - Buffalo, N. Y.

SEE THESE PRICES!

Splendid 3-in stock, worth nearly twice the money. All in fine growth. Per 100

BRIDES AND MAIDS..... $3.50
METEORS..... 3.00
PERLES..... 4.50
PERLES—Extra Good 5.00
BEAUTIES..... 4.50

This stock will certainly please and make you money.

W. H. GULLETT & SONS, Rose Growers, Lincoln, Ill.

ROSES! ROSES!

Brides, Meteors and Maids, 3-inch, $4.00 per 100; $35.00 per 1000. 2-inch, strong, $2.50 per 100; $20.00 per 1000.
Perles, Beauties 3-in., $5.00 per 100; $45 per 1000.
50 at 100 and 500 at 1000 rates. Cash with order.

ROBERT F. TESSON,
West Forest Park, - St. Louis, Mo.

FORCING ROSES

	2½-in. Per 100	2½-in. Per 1000	3½-in. Per 100
BRIDE	$2 50	$22.50	$
BRIDESMAID	2.50	22.50	
METEOR	2.50	22.50	4.00

White, Pink and Yellow Ramblers, same. Moonvines $20.00; Alternantheras $18.00 per 1000.

THE NATIONAL PLANT CO., Dayton, Ohio.

AMERICAN BEAUTY

Fine young plants, healthy and strong. 3-inch pots, $10.00 per 100; $90.00 per 1000.

EDWIN LONSDALE,
Wyndmoor, Chestnut Hill,
Cash with order. PHILADELPHIA, PA.
Money Order Office, Station H, Phila.

ROSE PLANTS Per 100

5000 AMERICAN BEAUTIES, 3-inch, $4.00
700 BRIDESMAIDS..... 3-inch, 3.00
1400 METEORS..... 2½-in., 2.00
Fine, healthy stock; good size.

FIRST COME, FIRST SERVED.

A. G. PRINCE & CO.,
88 and 90 Wabash Ave., CHICAGO.

Do not hide your light under a bushel. Tell the people what you have for sale.

Rose Plants.

BRIDES, BRIDESMAIDS, METEORS AND PERLES.

Very strong and healthy. From 3-inch pots, $5.00 per 100; $45.00 per 1000.
Limited quantity, from 2½-inch, $3.00 per 100.

BROWN & CANFIELD,
SPRINGFIELD, ILL.

ROSES.

AMERICAN BEAUTY, strong, clean and healthy plants, from 4-inch pots at $10 per 100; $75 per 1000.
SMILAX, strong, 4-inch, at $3 per 100. Cash with order.

JOHN B. GOETZ,
2165 Mack naw St., SAGINAW, W. S., MICH.

GOLDEN GATE **Rose Plants.**

SELECTED STOCK.
3 and 4-inch pots, $25.00 per hundred.
For Cash or in Exchange.

American Rose Co., Washington, D. C.

ROSES. ROSES.

No finer grown. Big bushy plants, full of flowering shoots, out of 3 and 3½-inch pots, at $3.00 per 100. Meteors, Brides, Bridesmaids, Perles and Beauties. This stock is cheap at twice the price, but must be sold at once to make room.

SMILAX PLANTS, 2-inch pots, full of roots and covered with plant—no finer to be had—at the lowest price ever quoted. 75c per 100; $5 00 per 1000.

SOUTH SIDE FLORAL CO., Springfield, Ill.

CANNAS—Rambler Roses

From field for Fall delivery.

Also 30,000 SPIRÆA ANTHONY WATERER.
40,000 LOGAN BERRY TIPS.

The Conard & Jones Co., WEST GROVE, PA.

ROSES

100 AM BEAUTY, 3½-in.....$5.00 per 100
BRIDESMAIDS, 3½-in..... 3.50 per 100
METEORS, 3½-in..... 3.50 per 100
Very choice; grown for our own use. May be returned at our expense if not satisfactory.

BRANT & NOE—Gentlemen: DALLAS, TEXAS.
We are greatly pleased with rose plants received.
Yours, etc, TEXAS SEED & FLORAL CO.

BRANT & NOE, - Forest Glen, Ill.

CARNATIONS.

We have a fine lot of extra strong plants in the field, including

FLORA HILL, VICTOR, LILY DEAN, MAYOR PINGREE, TRIUMPH, ARMAZINDY and others. Also Jubilee in 4-in. pots.

WRITE FOR FULL LIST AND PRICES. Full Price List of PALMS, FERNS, DRACÆNAS, Etc., also Ready.

ROBERT CRAIG & SON, Market and 49th St., Philadelphia.

CARNATIONS NOW READY

EXTRA FINE FIELD-GROWN PLANTS.

	Per 100
Mrs. S. A. Northway	$10.00
Alba Superba	12.00
Evelina	12.00
Cold Nugget	12.00
White Cloud	12.00
Flora Hill	6.00
Jubilee	8.00
Lizzie McCowan	4.00
William Scott	4.00
Daybreak	7.00
Victor	8.00
Tidal Wave	6.00
Morello	6.00

VAUGHAN'S SEED STORE

Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

FIELD-GROWN Carnation Plants

STOCK READY SEPT. 1st.

A good season has put our field-grown stock for Fall planting in excellent condition; clean, healthy and strong. The condition of our ground is such to insure the lifting of a plant with little or no loss of roots. Send for Price List.

F. Dorner & Sons Co.
LA FAYETTE, IND.

WANTED.

10,000 DAYBREAK,	1,000 JUBILEE,
10,000 SCOTT,	1,000 METEOR,
10,000 McGOWAN,	1,000 ELDORADO,
5,000 PORTIA,	1,000 MRS. BRADT.
5,000 GENESEE,	

Field-grown plants, free from disease. Delivery about Sept. 15th.

Address A. L. THRALL, Jamestown, N Y.

CARNATIONS.

Fine, healthy, strong plants of the kinds you know what you can do with.

DAYBREAK, SCOTT, S. SPRAY, ELDORADO, PORTIA, DELLA FOX, EDNA CRAIG, F. DORNER, $5 per 100.

Cash with order. Will give you sample of some fine tested seedlings with each order.

A. C. LAMPRECHT, Ashland, Ohio.

FIELD-GROWN CARNATIONS.

Ready now. Standard varieties. Write for prices.

FIELD-GROWN MARIE LOUISE VIOLETS, $4 per 100. A1 stock, from pots, $3 per 100; $25 per 1000.

A few hundred BRIDES and MAIDS at a bargain, from 3-inch pots.

CRABB & HUNTER, Grand Rapids, Mich.

CARNATIONS, McGowan, etc. GERANIUMS, Nutt and Favorite. VINCA Major Variegata. All strong field-grown plants in perfect health. 75c per dozen. $5 per 100. CANNAS, varieties and prices on application.

INSALL & LEADBETTER, Moorestown, N. J.

CARNATIONS.

Fine Field-Grown Plants.

	100	1000		100	1000
Wm. Scott	$3.00	$25.00	Portia	$3.00	$25.00
Nancy Hanks	3.00	25.00	Lizzie McGowan	3.00	25.00
Emma Wocher	3.00	25.00	Alaska	3.00	25.00
Bridesmaid	3.00	25.00	Kohinoor	3.00	25.00
Tidal Wave	3.00	25.00	Nivea	3.00	25.00

MORELLO, MAYOR PINGREE, FLORA HILL, $6.00 per 100; $50.00 per 1000.....

NO ORDER FOR LESS THAN 100 ACCEPTED.

REINBERG BROS., 51 Wabash Ave., Chicago, Ill.

EXTRA FINE CARNATIONS

WHY YOU SHOULD BUY YOUR PLANTS OF US:

1st. Because your order will be filled immediately.
2nd. Because our plants make a great mass of fibrous roots which enable them to stand long shipment well and to start at once when planted.
3rd. Because our plants are healthy and we grow the best varieties.

Send for prices..... GEO. HANCOCK & SON, GRAND HAVEN, MICH.

CARNATIONS

3000 Extra Fine Field-Grown Plants of DAYBREAK.

Also 1000 McGOWAN, 600 SCOTT, and 500 METEOR. Write for prices.

W. A. WETTLIN, Hornellsville, N. Y.

CARNATIONS FIELD-GROWN

Ready September 1st and later.

2000 Lizzie McGowan	500 Silver Spray
500 Ivory	1000 Wm. Scott
500 Morello	300 Emily Pierson
500 Daybreak	200 Goldfinch

If you want any field-grown plants this fall write me before you buy and get prices on this lot. Address

Chas. Chadwick, Lock Box 11, Grand Rapids, Mich.

CARNATIONS

H. WEBER & SONS,

Oakland, - Md.

We like to have you tell our advertisers that you read our paper.

CARNATIONS

PINGREE
ARMAZINDY
AND TRIUMPH

Field-grown. Ready now. Write for prices.

GEO. A. KUHL, Pekin, Ill.

Mention American Florist.

PASSMORE'S

CARNATIONS are No. 1, and clean; lots of roots, and well packed: Scott, McGowan, Nivea, and others. Cheap for the quality: or will exchange some for 1200 Giant Alyssum plants.

BENJ. J. PASSMORE, Swarthmore, Pa.

Mention the American Florist.

Field Grown CARNATIONS

Daybreak, Eldorado and Anna Webb. @ $5.00 per 100. Portia, McGowan and Scott, @ $4.00 per 100. Free from rust. Cash with order.

DANA R. HERRON, - Olean, N. Y.

Los Angeles, Cal.

The past few days have been unusually warm and the hot dry winds have seriously injured the flowers as there is no stock growing inside except ferns. The demand for cut flowers continues fairly good. All the growers are preparing plenty of stock for the coming season and as but little planting and improving has been done for three years there should be a very heavy demand for all nursery and ornamental plants.

The talk of the florists of this community is the resignation of J. G. Morley as manager of the Redondo Beach Floral Company and his departure for the Klondike. Some ten months ago John Ackland, an employe of that company, went to Alaska and has succeeded so admirably that he wrote Morley to come at once. Mr. Ackland has secured good gold claims and expects to sell $8,000 of vegetables from his garden this year, onions selling at $1 each and radishes $1 per dozen. We understand at least one other florist profits largely by Ackland's success. Mr. Morley started north on the steamer Santa Rosa on August 11. He is succeeded as manager of the Redondo company by John Schloss, who, for several years, has been a landscape gardener and jobber in this city.

The horticultural commissioners, with the co-operation of the orange growers, propose to endeavor to send George Compere, a "bug expert" to the Sandwich Islands in search of the insects which prey upon the different kinds of scale and mealy bug.

E. Fleur, proprietor of the Oak Grove Nurseries at Alhambra, has completed the pipe line from his well in South Pasadena to the nurseries and now has an abundance of water.

Alfred Roedder has recently returned from a vacation. He visited the northern part of the state and spent a week fishing on Catalina Island.

Jas. Crookshank, who for several years was in charge of the Sanborn Ranch near Mission San Gabriel, is now in charge of the grounds surrounding the Arcadia Hotel at Santa Monica.

John J. Cline, a well known gardener of St. Louis, Mo., where he had charge of W. K. Richards' conservatories and grounds, is in Los Angeles for his health, which has materially improved since coming west.

Some dealers are reporting a shortage of the larger sizes of calla bulbs; smaller sizes are abundant.

After the losses from frost in the celery districts in Orange county it was predicted the industry would suffer this year but I am informed the acreage being planted is larger than heretofore.

J. Aug. Kusche is again in the harness, having resumed his old position with Capt. F. Edward Gray, Ingleside nurseries, at Alhambra. D. R. W.

ASPIDISTRA Lurida fol. var. just now in good condition without leaves, good roots with sprouts, $6 per 100; sample, 90c per doz. postpaid. Canna "Florida" for trial 10 cents.

Asparagus Sprengerii Seed.... { 100, $1.00 / 1000, 8.00
Fresh from the vines.....

Pampas Grove Nurseries Greenland P. O., Florida.

CINERARIA PLANTS.
Ready for 3-inch pots. The finest colored, large flowering dwarf varieties, mixed. None better. Per 100, $2.50. Extras added to help pay express.
JOHN F. RUPP, Shiremenstown, Pa.

FREESIAS. We have nearly a half million fine Flowering Bulbs, and are prepared to fill all EARLY orders promptly. We guarantee FULL count, FULL size thoroughly cured Bulbs, ABSOLUTELY FREE from disease.

We do not quote such unknown sizes as "Mammoth," "Select," let size, etc., etc., but give actual measurement, so you may know what to expect.

Price including free delivery anywhere in U. S. A.:
¼ to ⅜ inch.....$2 50 per 1000
⅜ to ½ " 3 50 per 1000
½ to ¾ " 5 00 per 1000
¾ to 1 " 9 00 per 1000

Order To-day Direct from the Growers,
C. A. BRAZEE & CO., Wilmington, Cal., U. S. A.

UMBRELLA PLANTS. Per 100
3-in., fine, strong plants, ready for 5-in. $3.00
6-in., fine, strong plants, $2.00 per dozen.

ASPARAGUS PLUMOSUS, 2½-inch..... 5.00
" **SPRENGERII**, strong, 2½-in. $6 & 7.00
See Convention Number for other stock.
CARL HAGENBURGER, West Mentor, O.

Rooted Cuttings of ACERATUM Princess Pauline, the most distinct and novel variety, of dwarf, compact habit; color sky-blue. Most desirable plant for retail trade, per 100 $2 00
CYCLAMEN PERSICUM, in four colors, fine plants, 4-inch, per 100 $12 50.
ROSES—Souv de Wootton and Bougere, 4-inch, per 100 $5 00
Field-Grown CARNATIONS—Jubilee, Armazindy, Mayor Pingree, per 100 $7.00. Alaska, McGowan, Kohinoor, Daybreak, Rose Queen, Scott, Dorner and W. D Sloane, per 100 $5 00.
Cash with order. CHRIST. WINTERICH, Defiance, O.

FOR SALE.
100,000 Strong LATANIA Seedlings, very well rooted, $25 per 1000
30,000 FERNS for dishes, very large, 2½-inch, $3 per 100; $25 per 1000
4,000 SWORD FERNS, 4-in. $9, 4½-in. $10 per 100.
2,000 RUBBER TREES, in excellent condition, 5½-in. 50c; 6 in. 70c You never saw better Ficus.
60,000 PALMS in variety. All sizes. (Medal awarded on Palms at World's Fair, 1893).
10,000 No. 1 'MUMS, ready for this fall.
Try us on **No. 1 CUT FLOWERS.** 26 greenhouses.
ALBERT FUCHS, 2059-73 N. Halsted St. CHICAGO.

Geranium "MARS"
STOCK PLANTS, FIELD GROWN, READY NOW....
$1.50, $2.25, $3.00 per doz.; $15.00 per 100. Cash with order, please.
HENRY EICHHOLZ, Waynesboro, Pa.

VIOLETS. SMILAX.
VIOLETS MARIE LOUISE, field-grown, strong, and absolutely healthy, $4.00 per 100; $35.00 per 1000.
SMILAX, 2½-inch, fine, once cut back, $1.00 per 100; $8.00 per 1000.
Cash with order please. Samples by mail 10 cts.
R. KILBOURN, Clinton, N. Y.

SMILAX!
Fine stock, ready to run soon as planted, winter sown and several times headed back, 2½-inch pots. $2.50 per 100.
Bougainvillea G Sanderiana, 3-in. pots, $1.50 per doz.; $10.00 per 100.
ROSES, Bride and Bridesmaid, 3½-in. pots, $5 per 100
Cyperus Alternifolius, 2½-in. pots.....$2.50 per 100
Grevillea Robusta, 2¼-in. pots..... 2.50 per 100
NATHAN SMITH & SON, Adrian, Mich.

SPECIALTIES IN BEST VARIETIES.
ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.
Prices low. Send for list.
WOOD BROTHERS, FISHKILL, N.Y.

There Are Buyers
For all kinds of good stock advertised in.....
THE AMERICAN FLORIST

Per 100 Per 1000
Lil. Harrisii, 5-7, first-class stock $3.50
Selected Freesias 50 $3.50
PURE White Freesias, guaranteed flowering 40 3.00
(Price on Freesias includes delivery).
Calla æthiopica, 3-5 inches 4.50
" " 4-6 " 6.00
" " 5-7 " 8.00
" " Mammoth 10.00
Pansy Seed, CHOICEST strain German and Scotch GIANTS, per pkt. 25 cts. Address
H. H. BERGER & CO., 220 Broadway, New York.

Dutch Bulbs
HYACINTHS, TULIPS, CROCUS, ETC.
RUDOLPH VAN TIL & CO.,
Hillegom, Holland.
American Representative
L. C. BOBBINK, Rutherford, N. J.
ASK FOR CATALOGUE.

BULBS For FLORISTS., For SEEDSMEN.
VAN ZANTEN BROTHERS,
HILLEGOM, - HOLLAND.

Azaleas
Palms
Bay Trees
Araucarias
THE FINEST STOCK IN THE WORLD
SANDER,
BRUGES, BELGIUM.
AGENT:
A. DIMMOCK,
60 Vesey St., NEW YORK
Mention the American Florist.

N. EXALTATA Per 100
4-inch, strong plants.....$12.00
6-inch, " " 50.00
N. EXALTATA BOSTONIENSIS
5-inch, very fine.... 50.00
6-inch, " "
JOHN BLANCK, 160 43rd St., Chicago, Ill.

JOSEPH HEACOCK
WYNCOTE, PHILA., PA.
—GROWER OF—
ARECA LUTESCENS,
COCOS WEDDELIANA,
KENTIA BELMOREANA,
LATANIA BORBONICA.

ASTILBE CHINENSIS (Spiraea) First-Class
Certificate Mass. Hort. Society.....
Three sizes, fine stock, $20, $15, $10 per 100.
We recommend September and October planting for..... HARDY HERBACEOUS PERENNIALS IN VARIETY.
Price list and descriptive catalogue on application.
REA BROTHERS, Norwood, Mass.

ARAUCARIA EXCELSA
Strong plants, dark green foliage.
CYRTONIUM FALCATUM, 7 and 8-inch pots.
ASPARAGUS SPRENGERII, 3-in. pots, strong plants.
ASPARAGUS PLUMOSUS, 3-inch pots.
Send for quantity and price list.
T. E. EDWARDS & BRO., 478 Irving Ave., Bridgeport, Conn.



NEW CROP PANSY!

VAUGHAN'S "INTERNATIONAL"

Received the only reward for Mixed Pansies at the World's Fair. It is today better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. **Price, per oz., $10; 1-2 oz., $5; 1-8 oz., $1.50; trade pkt., 50 cts. (less 10 per cent for cash.)**

VAUGHAN'S "GIANT MIXTURE"

This mixture is specially made up by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had in any other way. If your trade demands large flowers there is no better mixture. **Price, per oz., $4.00; 1-4 oz., $1.25, 1-8 oz., 70 cts., large trade pkt., 50 cts.**

GIANT TRIMARDEAU, Mixed, oz., $1.00; ¼-oz., 30c; pkt., 10c.
"CHICAGO PARKS BEDDING" MIXTURE, oz., $1.00; ¼ oz., 30c; pkt., 10c.
Separate Colors—For price of these see Special Pansy Seed Circular, sent on application.

VAUGHAN'S SEED STORE,
14 BARCLAY ST., NEW YORK. 84-86 RANDOLPH ST., CHICAGO.

PANSY SEED

Large Flowering.

Do you want to grow the finest Pansies, if so, buy the JENNINGS STRAIN. Always reliable None better. Very finest mixed, $1 00 per pkt. of 2500 seeds; $6 00 per ounce. White, yellow, black, blue, red, pink and lavender in separate colors, $1.00 per pkt. The above all grown from very finest stock. Cash with order.

E. B. JENNINGS, L. B. 254, **Southport, Conn.**
Grower of the Finest Pansies.

John!

THE PANSY MAN

THAT'S WHAT THEY CALL ME.

Fresh seed now ready. J. B.'s Challenge is all that the word implies. TRY IT! Good percentage of light colors. Large trade pkt., $1.00 cash.

Plants Ready Sept. 15th.

JOHN BEIMFORD, WILTON JUNCTION, IOWA.

PANSY SEED.

STRICTLY FRESH.

French and German crops, oz $7.50; ½ oz. $3 75; ¼ oz. $2.00; pkt. $1.00.

BEDDING PANSIES, per oz. $4.00; pkt. 50c.

J. L. SCHILLER,
404 East 34th Street NEW YORK.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at $1.00 each.

M. B. FAXON,
Lock Box 1528. BOSTON, MASS.
Correspondence solicited.

Pansies Worth Raising.

EXCELLENT SEED.

3-16 oz. $1.00; 1 oz. $4.00; up in 8 to 10 days, if properly treated.

FINE STOCKY PLANTS, $4 00 per 1000. f. o. b. express. ☞ CASH WITH ORDER.

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

VIOLETS.

Large clumps Princesse de Galles and California Violets from field.

PRINCESSE DE GALLES, $5.00 per 100; 500 $22.50; 1000 $40.00.

CALIFORNIA, $3.00 per 100; $25.00 per 1000.

Large Runners of Princesse de Galles, $4.00 per 1000. California, $3.00 per 1000.

Strictly cash with order and quantity mentioned.

SEA CLIFF NURSERY,
FD. BOULON, Prop. Sea Cliff, L. I., N. Y.

LARGE 500 VERY HEAVY SMILAX, 4-INCH

Ready to spring, $3.00 per 100.

ALBERT FUCHS, 2059-73 N. Halsted St., Chicago.

HERR'S PANSIES. BUY THE BEST

SEED at $1.50 per ounce. A liberal packet for $1.00.
PLANTS at 75 cts. per 100, or $4.00 per 1000; 250 for $1.00, by express.

ALBERT M. HERR, LANCASTER, PA.

CROP OF 1898. NOW READY.

PANSY.

Barnard's Florist Mixture.

A high class, up-to-date mixture that fills the bill "par excellence"—made up from the leading colors, producing flowers of the most perfect type. It gives you pansies that sell.

Trade pkt. 25c; ⅛ oz. $1.00; ⅛ oz. $4 00; per oz $7.00.
Giant Mixture, trade pkt. 25c; ⅛ oz. 50c; per oz. $4.00.

Full assortment of separate colors ready now. New crop of high grade Flower Seeds constantly arriving.

W. W. BARNARD & CO.
161 & 163 E. Kinzie St., CHICAGO, ILL.

SEED! **PANSIES** SEED!

Roemer's Superb Prize Pansies, improved strain, new crop, ready now. This new mixture is saved from the very finest selected plants from all leading novelties of art colors, without doubt the finest strain in the market to-day. Mixed, per pkt of 3000 seeds, $1.00; ¼ oz., $1 50; ½ oz., $2 75; 1 oz., $5 00. White, yellow, black and blue, in separate colors, $1.00 per pkt. of 3000 seeds.

CASH WITH ORDER.

PETER BROWN, - Lancaster, Pa.
Grower of Extra Fine Pansies.
Plants ready Sept. 15th.

Zirngiebel's Giant Pansies

PLANTS of the above strains at the same rates as the common varieties, viz: **$5 per 1000.** With our system of packing, plants can be sent safely any distance.

DENYS ZIRNGIEBEL, Needham, Mass.

CHINESE PRIMROSE

2½-inch pots, mixed colors, $2.00 per 100.

CINERARIA, $2 per 100. ASPARAGUS SPRENGERII, 3-inch pots $5 per 100. FERNS for jardinieres, $3 per 100.

PANSY SEED, ½ oz. $2.00; oz. $3.50. Plants October 1st. $3.50 per 1000

JOS. H. CUNNINGHAM, Delaware, O.

A good adv. in a good paper will bring good returns.

New Pansy Seed.

	Trade pkt.	1 oz.
Mitting's giant flowering	50c	$4.00
English, finest mixed	25c	2.00
French, " "	25c	2.00
Bugnot, " "	50c	4.00
Boucharlat	35c	3.00
Odier	35c	3.00
Cassiers	35c	3.00
Trimardeau, mixed	35c	3.00
" Parisian, large strained	35c	4.00
Lord Beaconsfield	25c	2.00
Striata Grandiflora	30c	2.50
Candidissima	30c	2.50
Faust	25c	2.50
German, large mixed, ¼ oz. at 1 oz. rates	30c	2.50

PANSY PLANTS.—Mitting's giant flowering in bud and bloom, 50 cents per 100; $5.00 per 1000.

CARNATION PLANTS.

Flora Hill, Mayor Pingree and C. A. Dana at $6.00 per 100; fine stock. Triumph and Armazindy at $5.00 per 100.

FLOWERING BEGONIAS in 10 varieties, 2¼-inch, $2.00.

THE MORRIS FLORAL CO.
Morris, Ill.



H. Wrede,

LUNEBURG, GERMANY.

PANSY SEED.

144 First Prizes, the highest awards World's Fair, and Hamburg, 1897.
1000 Seeds, finest mixed, 25c.
1 oz. " " " $3.75

☞ Price List on application. Cash with order.

LOOK AT THIS....

6000 fine rooted runners of California Violets, $3.00 per 1000.

3000 fine rooted runners of Princesse de Galles, 50 cts. per 100.

2500 fine clumps of Princesse de Galles, $3.00 per 100.

L. A. WALKER, LINDSAY, VA.

VIOLETS MARIE LOUISE.

2000 field-grown, strong clumps, clean and healthy, $4.00 per 100. 2½-inch pot plants, $2.50 per 100.

SCOTT CARNATIONS, field-grown, strong, $4 per 100.

Cash with order. J. J. LAMPERT, Xenia, O.

Indianapolis.

BUSINESS IS QUIET.—ACTIVITY OF MEMBERS OF THE FLORISTS' FIRE INSURANCE ASSOCIATION.—NOTES.

Business continues very slow, the hope that the meetings of the L. A. W. and K. of P., which were held in this city in August, would somewhat stimulate our summer trade proving false.

Members of the Florists' Fire Insurance Association are doing some great hustling among their friends, trying to get all the members possible. Their activity is caused by the convention reports which show that many more members are wanted to assure success to the association.

A. Pahud recently bought from the Crown Hill Cemetery Company a number of lots adjoining his property and he now owns an unbroken tract of several acres in a location very desirable for florists.

Martin Brandelin has added to his place a carnation house 20x100.

Miss Minnie Hack, daughter of our gladiolus specialist, fell from her wagon while returning home from market and one of the horses stepped on her hand, fracturing two fingers. H. JUNGE.

Standard Flower Pots.

PRICE LIST OF STANDARD POTS:—

1¾-in. pots, per 1000	$3 00	6-in. pots, per 1000	$22.00		
2 " "	3 25	7 " "	35.00		
2¼ " "	3 50	8 " "	50 00		
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3 " "	5.00	10 " per 100	10 00		
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4 " "	9 00	12 " "	20 00		
5 " "	13 80	14 " "	40 00		
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Seed and bulb pans, same price as pots. Saucers to match pots, one-half price of pots. Ten per cent off for cash with order Send for price list of Lawn Vases, Hanging Vases and Cylinders. Address

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Price Lists Furnished on Application.

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FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTS.

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HARRY BALSLEY, Rep. DETROIT, MICH., 490 HOWARD ST.

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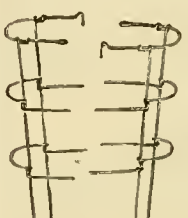
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HORAN'S PATENT

Carnation Support

Patented Aug. 3, 1897.

Following are a few of the many testimonials received from various growers:



Buffalo, N Y, Jan. 25, '98.
Mr Jas. Horan & Son,
GENTLEMEN: — I have in use a few hundred of your patent Carnation Supports. They are supporting Flora Hill. While I consider the first cost rather high, they answer the purpose admirably, not crowding the plants, but affording light and air between them. They should be of various heights and sizes, to suit the different varieties of carnations.
Very respectfully,
WILLIAM SCOTT.

Connellsville, Pa., Jan. 31, '98.
Mr. Jas. Horan & Son,
GENTLEMEN:—I have given your supports a fair trial and consider them far ahead of anything I have ever seen for the purpose, and although they are a little expensive at the start, the fact that the same support can be used year after year, makes them very cheap, and I would gladly recommend them to anyone wishing a perfect support for carnations. Yours truly, L. D. WOODS.

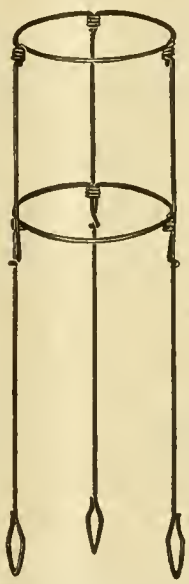
We have made an improvement on our Supports which admits of the rings being let out two inches, which prevents the plant from being crowded as it increases in size. While we think the size we have adopted suitable for nearly all the varieties now in cultivation, we can furnish larger sizes at a slight increase of cost over the regular sizes to those who desire them.

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BRANCH WAREHOUSES:
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Jackson Av. & Pearson St., Long Island City, N. Y.

The MODEL Extension Carnation Support



QUEENS N Y., Feb. 16, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97
MR. THERON PARKER,
Dear Sir:—Your wire stake is certainly a gem Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes
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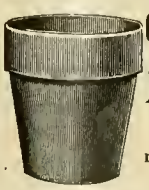
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Several thousand florists supply the majority of their wants after a perusal of these pages.

Pontiac, Ill.

W. J. Miller, of the Riverview Greenhouses, has enjoyed an excellent summer season and to give increased facilities for his fall trade is preparing to build a new house 10x57. He has the material on the ground.

Mr. Miller believes that the 800 violet plants which he has benched would be hard to beat. His chrysanthemums and roses are also in fine condition and he is preparing to bench his carnations. He will grow about 2000 of the following varieties: Jubilee, Triumph, Daybreak, Lizzie McGowan, Flora Hill, Mrs. Bradt and Mayor Pingree.

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IS MUCH MORE DURABLE THAN PINE.
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It is not affected by extremes of weather, and is thus especially adapted for greenhouses, etc. Send for descriptive circular of Mastica and Mastica Glazing Machines.
F. O. PIERCE CO.,
Sole Manufacturers
170 Fulton Street, NEW YORK.

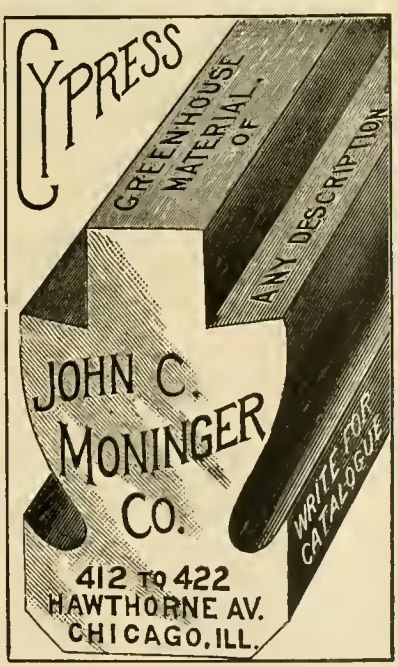
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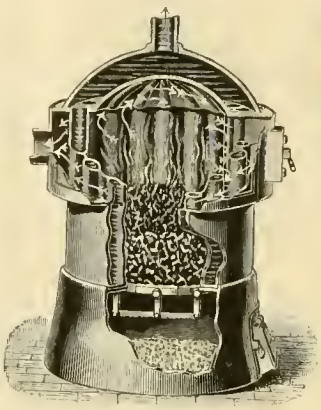
Always mention the American Florist when you order stock.

Worcester, Mass.

Trade has increased considerably during the last week and the supply of good flowers is hardly sufficient to meet the demand. Considerable of this activity in business is caused by funeral work, which, as is usually the case, has come all in a lump, and while we were throwing stock away last week, at the present time we have to hustle to find enough to fill our orders. The greatest shortage is in carnations of which we cannot get nearly enough, as Mrs. Fisher, which is the variety that is generally grown in this locality for summer blooming, has done very poorly this season. In roses the supply is nearer the demand and Kaiserin, Carnot and a few Brides and Maids are being brought in with some degree of regularity.

Potter & Cousins have begun planting at their new location and expect to bench about 10,000 carnations. They will continue to run the old Gormley place until February, when their lease expires.

A. H. L.



"DORIC" HOT WATER HEATER. SECTIONAL VIEW

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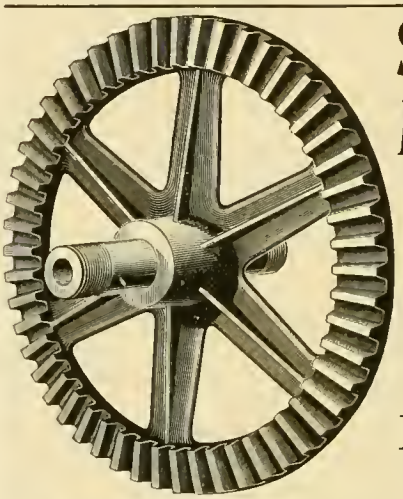
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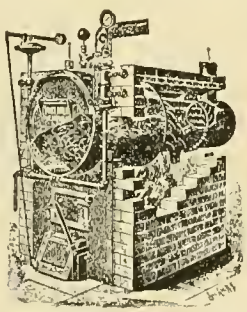
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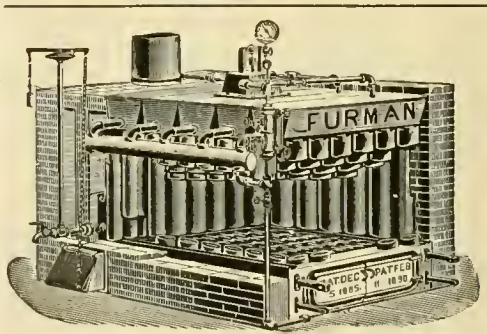
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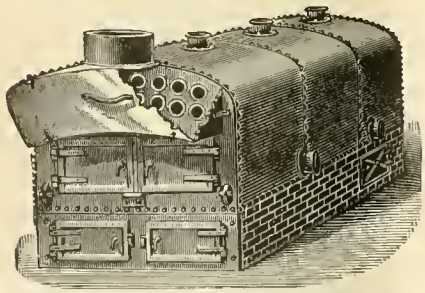
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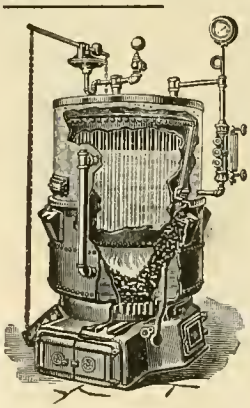


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Please mention the American Florist

Harrisburg, Pa.

On my visit to this city, Mr. J. D. Brenneman and his charming wife were more than busy. Flowers outdoors, as a rule, have suffered lately through the heavy rains. In Mr. Brenneman's company I visited his establishment in the north part of the city. Twelve houses, containing 45,000 feet of glass, are planted with roses and chrysanthemums. The plants throughout the place show the very best of culture. The rose, Golden Gate so popular in Washington, is grown extensively and well. In chrysanthemums he has thirty new varieties on trial and his carnations in the field look very promising. Part of a house planted with Semple asters did nicely until a few days ago, when blight struck them. The foliage is decaying while the stems seem healthy. Mr. Brenneman expects to erect five more houses next season. One house is being erected for violets and an additional boiler will be put in before winter.

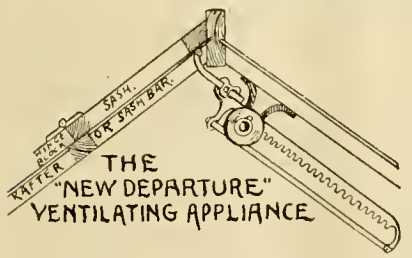
I took a look at the grounds around the capitol, which are in a deplorable condition. Hydrangea paniculata lost its foliage and bloom because of red spider; the palms and decorative plants show signs of suffering for want of water and the flower beds are not a credit to the state. The conservatories contain a few benches of fairly good looking chrysanthemums and roses. H. E.



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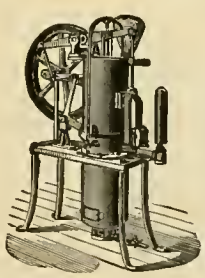
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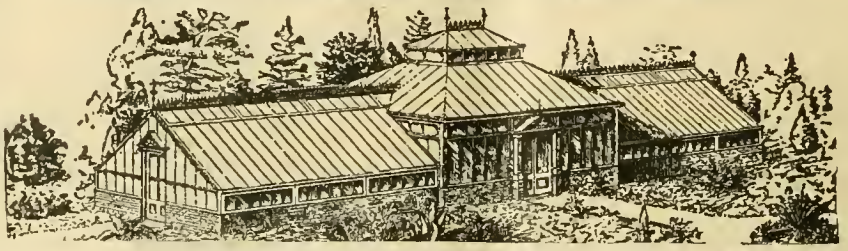
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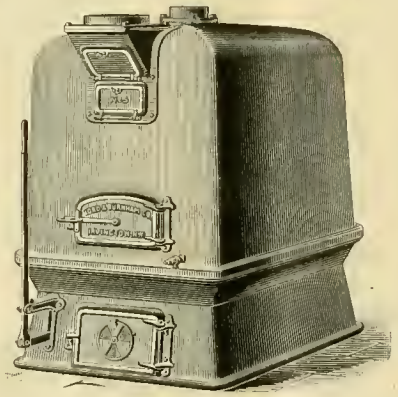
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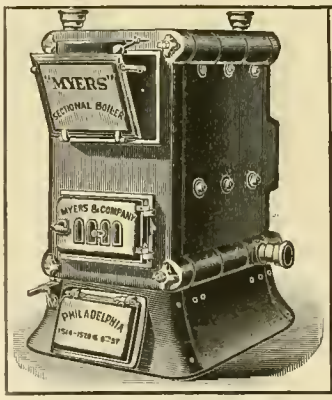
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OFFICERS-ELECT [to be installed Jan. 1, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898. ELMER D. SMITH, Adrian, Mich., secretary.

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Housing Carnations.

This work is in full swing, and all indications point to the conclusion that carnations will be more extensively grown and of better quality this season than ever before. So great, indeed, has been the increase in the quantity benched that not a few growers find the number of plants on hand insufficient for their needs. Those who have a surplus should advertise it now.

Lilies of Japan.

Although lilies flourish in every known country, sharing the same habits of growth, Japan, the land of flowers, surpasses all for manifoldness of species and exquisite beauty of varieties. Greatest and best known of all is the Lilium auratum, and this species has five more well defined sub-species, viz., L. auratum pictum, so called for the bright crimson spots which cover its petals instead of the brown colored ones of the type; L. auratum virginale alba, which is pure white as to petals, except that through the center of each runs a golden yellow band; L. auratum Wittei, differing from virginale alba only in having raised white spots on the petals; L. auratum macranthum, the foliage of which is oval instead of lanceolate, the flowers enormous and the petals covered with bright golden yellow dots; and L. auratum rubrum vittatum, which is the queen of beauty in this sextet, through whose snowy petals runs a band of blood red.

In Japan the auratum varieties were found growing wild in the forests, the stalks attaining a great height and often bearing as many as forty to fifty flowers each. They are now cultivated in fields for export. The soil in the whole island of Japan is of a volcanic nature (this may be a hint to growers), the same in the fields invariably a heavy clay with substratum of gravelly substance. All manuring is done throughout Japan with nightsoil, chemical preparations being comparatively unknown. The time of flowering being past, the stalks dried off, the bulbs are dug and brought by the farmers to the various purchasers, to be prepared for export. Bulbs are bought from the grower, not by the thousand or more, but by measure, all sizes being mixed. The measure is a "picul," a weight of about 133 pounds.

The auratum bulb so far having foiled all attempts to export without covering or protection against atmospheric influences, the work connected with making it ready for export is laborious. Hillside clay and water is generally used in preparing a mixture the thickness of mortar. The bulbs are graded in sizes either before or after the process of covering them with a rather thick coat of the clay. This work is generally done by women and children, who receive from four to six cents per day. The bulbs, after being well covered with the clay, are laid on trays to dry, not in the sun, but in long sheds, as evaporation must not take place quickly, sufficient moisture being necessary to keep the bulb cool and plump while in transit. This process terminated, each size is packed in the well known export cases. Each layer is covered with dry, finely pulverized clay, and the top being reached, the cover is nailed fast, the respective consignee's mark put on with stencil, and the case is ready for transport to the "Hatoba," the shipping place for foreign steamers.

We have found, in long experience, that the roots of the auratum love to twist around moss and have invariably placed in the bottom of pots or boxes a generous layer of some rich forest moss. They love heavy soil and are impatient of too much moisture, which easily induces decay of the scales. Bulbs of the earliest importations are not as good as those coming in later and which are better ripened.

Other beautiful lilies of Japan are the L. speciosum or lancifolium types, speciosum album, speciosum rubrum and Melpomene, the latter a velvety dark subform of rubrum. All speciosum sorts have come more to the front in latter years, having been found well paying investments; moreover the bulbs do well for years, flowering every season, not being much subject to decay.

Another valuable species is L. elegans or Thunbergi. These all have upright calyxes, stiff stems and are very easy of cultivation, adapting themselves to any surrounding and growing and multiplying rapidly. The best known varieties are: L. elegans, red; L. atropurpureum, or atrosanguineum, with velvety, dark crimson petals, incomparable, beautiful shade of red with deep orange base; L. elegans semiflore pleno, so called on account of its stamens forming a feathery white inside, which makes the flower appear semi-double; L. elegans, orange, or Dahuricum, a brilliant shade of orange yellow; and L. elegans Alice Wilson, the rarest and most choice, with petals a very delicate lemon yellow.

Other valuable species are L. Batemanni, which grows anywhere and everywhere and lifts its tall spikes, crowned with six to eight bright apricot-colored flowers; the tiger species, L. splendens and flore pleno, single and double; L. Leichtlinii in two sorts, one canary yellow, the other scarlet, both with purplish spots; L. Kramerii, that exquisite pale rose trumpet lily; L. Hansonii, with thick, golden yellow petals, spotted brown, the flowers of which keep for weeks in water; L. Brownii, a long trumpet, creamy inside and flushed lemon to pale purple on the outside; L. coridion and L. concolor, liliputians with delicate stalks but a foot in height, star-like flowers, yellow or scarlet, gemmed with tiny dark dots, exquisite for floral work and well adapted for small plots or borders; L. cordifolium giganteum, with heart-shaped foliage and gigantic in proportion, a rider on horseback barely tow-

ering over their stems when entering a mass of them; L. Kamtshatkense (also found in Siberia), the black lily, with its delicate bell-like bloom of a velvety blackish purple; L. callosum, bell-shaped, scarlet; and last, but not least, L. longiflorum, the familiar Easter lily, whose only drawback is that it is not co-equal with its transplanted relative, L. Harrisii, in blooming time. Over a million longiflorum bulbs are exported yearly, the larger part finding their way to Europe. They are merely packed in dry soil or in rice chaff mixed with soil.

A few new species have lately been found and a few samples exported: L. Uke-Yuri, flowers similar to longiflorum, with shorter trumpet and dark stamens, foliage like the speciosum type, forces well, but is as yet rare and expensive; L. Alexandria, a pale pink species, whose counterpart is found in the high latitudes of the state of California and the north Pacific coast and know under the name of L. Washingtonianum; also a sub-species of Lilium longiflorum, with curious dark purplish stem, the trumpet white on the inside, but a deep puplish outside, which seems almost like a cross between Lilium Brownii and the pure longiflorum type; bulb and habit same as longiflorum.

The greatest success in the culture of lily bulbs is surely attained by following as closely as possible in the footsteps of Mother Nature, trying to give these children of the forest as much as possible the requirements of their native element, the rich, moist soil, the partial shade and, above all, loving care.

New York. H. H. BERGER.

Deutzia Corymbiflora.

This new deutzia was sent to France by Abbe Farges, of the foreign missions, who found it in Sse-Tchuen, China, and forwarded seed of it to M. Maurice de Vilmorin, the well-known dendrologist, in 1895. The seed germinated well and produced young plants which flowered in 1896. They were exhibited for the first time before the National Horticultural Society of France under the provisional name of D. corymbosa, an improper one, as it should be applied to a form of the Chinese species D. parviflora, which is quite different from the plant in question. It is under the slightly different name, Deutzia corymbiflora, that this novelty has been introduced by M. Boucher, horticulturist of Paris, and by Messrs. V. Lemoine & Son, of Nancy.

It is a finely-shaped, much branched shrub, making a height of about four feet. The branches of the current year's growth are erect, with bronze green bark, internodes long, leaves wrinkled, deep green above. The one year-old branches carry at each axil corymbose panicles once or twice branched, each division containing as many as 100 flowers and buds. The pedicels are short and slender; the calyx cup-shaped, clear green with five very short lobes. The five petals are wide at the base and pointed. The flowers when fully open are snow white and measure two-thirds of an inch in diameter. The stamens (five large and five small) have large winged filaments, which completely enclose and hide the three short styles, giving the flowers, though smaller, much the appearance of the flowers of Solanum jasminoides. Their number is so great that for six weeks the shrub appears covered with snow. The flowers appear in the latter part of June, following D. crenata. Owing to the number of buds which open in succession from the center of the clusters to the outside the appearance is equally as fine at the end of July as at the beginning of the flowering season. The shrub also occasionally flowers again in September, but less plentifully and the autumn blooming has no bad effect on that of the following year.

Deutzia corymbiflora has withstood two winters in Lemoine's nursery without killing back in the least. It prefers a light soil. The best specimens are found in half shade. It is a novelty of sterling merit and produces excellent effects either isolated on the lawn or planted in groups in front of larger shrubs in the border.



DEUTZIA CORYMBIFLORA.

Carnation Culture.

As many carnation growers do not plant their houses until October 1, or thereabouts, it has been suggested that some of them would like explicit directions for the operation. It will, of necessity, be somewhat of a repetition of former remarks. As in everything else relative to carnation culture, the difference of soil, climate and locality make it impossible to lay down any set rules for the grower to follow, so the following are offered merely as suggestions.

It is generally conceded among successful carnation growers that early planting gives the best results, so the earlier you get your stock housed the better. But, like every other rule, this one has exceptions, and unless your plants are of fairly good size it will be better to wait and give them the benefit of the good growing weather we have through September, as they will make better growth outdoors than they can possibly make inside and it will be easier to transplant them in October than it is now, especially if we have a hot dry spell, as we often get for a few days at a time during this month.

If your plants are ready, the next thing is to see that your soil is prepared to receive them. If it has not been especially composted it will require a liberal amount of well rotted manure. The amount used will have to be according to the special needs of your soil; some soils would stand a proportion of manure to equal one-third their bulk; others might not want more than one-sixth. This fertilizer should be thoroughly mixed with the soil, although some growers advo-



FLORISTS AT SEED FARMS OF JAMES VICK'S SONS.—SEE ROCHESTER NOTES, PAGE 184.

cate its being in the bottom of the bed while others have it on the top. But there is danger of its becoming water-logged in the bottom and with it on the top it is liable to induce stem rot if your stock is at all susceptible to this disease.

Almost as important as the manure is to have the soil thoroughly watered so that it is wet clear through to the bottom. This should be done, according to the heaviness of the soil, from one to three days before planting, the object being to have the soil moist when you plant and yet not wet enough to be the least bit sticky in handling. On no account plant in dry soil, as the contact of the dry soil with the feeding end of the little rootlets has a tendency to injure them and you will want roots in best possible condition so as to at once carry the moisture to the top and keep it in growing condition.

After the soil is in condition see that every preparation has been made to bring the plants from the field with as little delay as possible. Ordinary greenhouse flats make the best boxes for carrying them, as they should not be crowded into deep boxes and should be well watered as soon as a flat has been filled. The plants should be taken up with care to see that the little rootlets are as nearly as possible all saved, for it is these rootlets that are the life of the plant. A good plan, where you have the men to do it, is to have two men in the field and two planting inside. As soon as four flats have been filled, making a barrow load, bring them in and so keep it up until finished.

Use care in planting to see that a hole is made deep enough and large enough to spread the roots of the plant as nearly as possible as they were in the field. See that the soil is filled in firmly around these roots. Especial care must be used not to have the plants any deeper in the soil of the house than they were in the soil of the field, and the plants must be set erect. After every third barrow load the section of house planted should be well watered to get the plants thoroughly cleaned up from any dirt that may have lodged on them. Two planters who use proper care in handling and watering can keep two men in the field busy.

Unless the weather is actually cloudy it is well to shade the roof of the house pretty heavily for at least a week after planting. This shading can be of lime, mud, or anything that will answer the purpose and is not too hard to clean off. It should not be left on longer than time sufficient to give the plants a good hold and must be cleaned off thoroughly as soon as the plants can stand the sun, for it is not wise to allow them to soften in a shaded house, as they will surely do if not given the benefit of the full sunlight.

For the first few days it is well to syringe them three times daily, once in the morning, again at noon and again at about five in the afternoon. Some growers might object to this late syringing, claiming that they should not be wet over night, but this late syringing acts very much the same as a good heavy dew and freshens the plants so that they can stand the next day much better than if they were allowed to remain dry over night. The object is to keep them from wilting and the few days of heavy syringing necessary to do this is not long enough to hurt them otherwise. After they have taken hold it will be well, for the first few days after the sun is allowed on them, to give them a syringing once in the morning and once at noon, and omit all such treatment as soon as the plants can get along without it.

Ventilation can be left on day and night through the month of September without any danger, and in fact the plants will be the better for it, unless an unusually cold night were to come. When the plants are first set you must be careful not to have a direct current of air pass over them, for there is nothing which will cause the plants to wilt so quickly. After they have started the more air you can give them the better, as it helps to harden them for their long winter confinement.

Staking or tying up should be done as soon as possible after planting. If it can be done the same day all the better, as you do not want your plants to fall over and become used up by lying on the ground. There are one hundred and one ways of supporting carnations. My way is not the best way but it answers the purpose very well and is not particularly expensive. I use straight, heavy, wire stakes. These are placed between the plants in the row and then a loop is run around the two stakes enclosing the plant. This supports them nicely and at the same time allows the plant to be loose enough to get the benefit of light and air among its foliage.

The question of taking plants from the

field with or without a ball of earth is one that is sometimes brought up, but this is really entirely a matter of soil. Where the soil shakes off nicely without breaking the small roots it is better to shake it off, but where this can not be done it is better to leave it on. The greatest danger from leaving a clump with the plant is of its becoming hard and thus retarding the action of the roots in the same manner as a plant is injured by being pot bound. In some cases where the earth is especially stiff and hard it would pay to take the plants up with a good sized clump so as to get all the roots and then wash the soil off before planting them.

It is well to remember in bringing the plants in from the field that it is really their start as money makers and the better care we use in the process the more money we are likely to get out of them.

ALBERT M. HERR.

Annual Exhibition of the Massachusetts Horticultural Society.

Fine specimens of tropical plants were in abundance at this, the annual autumn show of the Massachusetts Horticultural Society. Cut flowers were scarce, excepting native flowers, which yearly interest a larger number of people.

The special features of the show were Dr. Weld's and Jason Bailey's exhibits of stove and greenhouse plants, fine Rex begonias from E. S. Converse and Mitten & Little, anthuriums from C. H. Souther, dahlias from William Winter, H. F. Burt and Lothrop & Higgins. J. Warren Clark showed a new seedling gladiolus of the Gandavensis type, pale yellow in color, named Canary Bird. F. L. Harris, for H. H. Hunnewell, sent splendid specimens of Adiantum Farleyense, Asparagus Sprengerii, which was suspended from the roof with fine effect, and an excellent plant of Encephalartos Ghellinckii. A finely colored seedling dracæna was in N. T. Kidder's lot. The Japanese exhibit added novelty. There were many gnarled specimens of coniferous plants and some really neat plants, judged even from western standards. Three variegated forms, Sciadopitys verticillata and two of Podocarpus Nageia were especially interesting as being distinct members of the order coniferæ.

The society's prizes for a pair of palms went to Dr. Weld. First for a collection of greenhouse foliage plants went to Jason Bailey, including splendid specimens of Cyanophyllum magnificum, Livistona rotundifolia, Dieffenbachia Menori var. Corsii, Bacularia monostachya, the walking stick palm; Sphærogyne latifolia, Maranta Makoyana and M. Van den Heckei, Alocasia Sanderiana, A. Thibautiana, Davallia Fijiensis, Maranta rosea picta, Phœnix rupicola and Kentia Belmoreana.

J. L. Gardner's group contained a fine specimen of Nephrolepis davallioides furcans, well grown plants of Caladium argyrites and Livistona rotundifolia.

For six stove and greenhouse plants, including crotons, N. T. Kidder was first. He had fine plants of Aralia Kerchoviana, Phœnicophorium Stevensonia, Gleichenia dicarpa longipinnata and Sphærogyne latifolia. Dr. Weld's second prize lot included Croton Queen Victoria, Phyllotænium Lindeni, Dracæna Wellesleyana and Adiantum cuneatum. J. L. Gardner was third.

For a specimen flowering greenhouse plant the prize went to N. T. Kidder for a good plant of Clerodendron Balfourianum as also the prize for six named caladiums. The prize for six named varieties of ferns, exclusive of adiantums, went to Dr. Weld; among them were Lomaria gibba, Davallia Mooreana and Nephrolepis davallioides furnans. For specimen fern, first to H. H. Hunnewell for a grand plant of Adiantum Farleyense, second to N. T. Kidder for Davallia Fijiensis. For five adiantums, first went to Dr. Weld, among them A. Cunninghami, extra fine, and A. Reichenbachiana. Selaginellas, first to Dr. Weld, with especially fine plants of S. Karsteniana and S. caulescens. Cycad, first to H. H. Hunnewell, with Encephalartos Ghellinckii.

Six orchids, first to Mr. Rothwell on an exhibit including an especially fine plant of Cattleya Harrisoniana, light pink with yellow throat; Dendrobium Phalænopsis, a very pretty Oncidium lanceanum, dark brown spotted sepals and petals and violet lip. First for Rex begonias went to E. S. Converse, second to Mr. Mitten. Mr. Green, gardener for Mr. Little, showed an immense plant of Begonia Haageana loaded with bloom; Mr. Roy, gardener for E. S. Converse, a large pan of Fittonia argyroneura; James Farquhar, a large collection of French and Italian cannas, though no improvement over recent varieties was noted. Phloxes came from Rea Bros. Mrs. Gill carried off the honors for a table piece.

James Comley had a display of asters and several unusual flowers, with Boconia cordata in seed and spikes of Hedychium Gardnerianum. Several new forms of bedding begonias of the semperflorens type were shown by Mr. Green, gardener for Mr. Little. W. W. Rawson filled the stage with an effective display of dahlias. The pompon dahlias attracted more attention than the show varieties. Mr. Blake was the only competitor for evergreens in tubs for the Hunnewell prize. He had a neat lot. T. D. H.



STOCK PLANTS OF FICUS IN BENCH.

Ficus Elastica.

It seems to make but little difference how many plants of ficus are placed upon the market, the demand keeps pace with the supply and the new crops of spring and fall find ready customers. At least ten times as many rubbers are grown now as were to be found ten years ago. The system of propagation in vogue then was to root sections of stems with single eyes and a leaf attached, these being placed each in a small pot of sand and plunged in moss or sand in a close frame in the propagating house. Now one of the most approved methods, as seen in the accompanying illustration, is to prepare a bed and set out the stock plants to remain and from which propagation by cuttings and mossing the shoots goes on all the time. Care must be taken that scale does not get a hold on the stock plants, as it soon spreads to the young shoots and gives the grower a lot of trouble. Robert Craig, whose house is here figured, claims to secure stronger and sturdier plants by these bed cuttings than those rooted from stock grown in pots, as he starts with broad leaves right from the bottom, while with the other system the lower leaves are as a rule smaller, from the fact that the growth of the shoots is not so robust as from plants in the ground. K.

New York.

HOT WEATHER HAS BAD EFFECT ON BUSINESS AND STOCK.—WHOLESALERS' TRIALS.—ABUSES COMPLAINED OF.—IMPORTERS HAVE TROUBLE WITH THE APPRAISERS.—A WHITE BLACKBERRY.—THE FIRST VIOLETS.—AUCTIONEER CLEARY MARRIED.

All coats off, has been the rule for the past ten days, not because of busy times but all on account of the torrid temperature which has descended upon New York with unprecedented severity. People do not want to buy flowers this weather, but the flowers come in just the same as though they were wanted and in increased quantity, but much decreased quality because of the "parboiling" they have gone through. Roses lie prone in the boxes, carnations are mere rags and asters alone stand up stiff and unwilting in spite of it all. The average wholesaler would, if he could have his own way, shut himself up in his refrigerator, but present necessity demands that he shall go out of town on the cars which are like ovens, to the greenhouses that are too hot to enter and try to get on amicable terms with the proprietor, who, of course, is becomingly non-committal regarding the season's prospects and discreetly leads his caller to the contemplation of a palm leaf fan and the shady side of a tree.

When one can get a wholesaler pinned down to talk seriously and confidentially about business methods as they exist at present he gets well repaid for his trouble. Long credits and slow collections come in for their full share of denunciation at such times. This matter has now become so



A BRANCHING FICUS.

momentous that stringent measures are likely to result from its agitation. But there is another abuse that is rapidly reaching such proportions that an uprising against its tyranny is imminent. That is the custom of "tips" which the buyers for many establishments have come to demand. It is only fair to the proprietors to say that in most cases they know nothing about it. But it has got so now that if a wholesaler wants any trade he must come down liberally and often, and the man who brings in the check to pay a bill expects a generous commission for his services. Many a loan is out, payment of which the creditor dare not ask, and the habit is growing.

Importers complain of the methods in vogue at the appraiser's office this season. Goods are held for days, with great injury to the perishable stock, on account of suspected undervaluation and arbitrary advances in valuation are made, the only resort for the importer being a protest that cannot be acted upon in time to be of avail in fixing the selling price of the goods. These complaints are so general and are made by concerns of such good repute that some attention should be given them and an effort made to so expedite and systematize the work of examination that injustice will be avoided. One good result of these annoyances, however, is that they emphasize the necessity for encouraging and developing home productions so that, as soon as possible, we may be independent of both foreign producers and custom houses.

A white blackberry is one of the sensational novelties of the season.

Ford Bros. proudly waved the first bunch of violets on August 27.

J. P. Cleary, of the firm of Cleary & Co., horticultural auctioneers, was married at Sing Sing, to Miss M. Creedon, September 5.

Philadelphia.

THE MATTER OF PEDDLING SHOE STRINGS AND CUT FLOWERS.—BUSINESS IS GOOD.—IMPRESSIONS OF OMAHA AS TOLD AT THE CLUB MEETING.—NOMINATION OF OFFICERS.—PERSONAL MENTION.

At last the hot spell seems to be broken and the change is very welcome. Beauties have been hard to handle as they opened wide in the boxes while being peddled. How much longer is this antiquated method of peddling stock around town in the effort to find customers to continue? Shoe strings, lead pencils and papers of pins are still carried about by sorry looking people whose helpless condition arouses the sympathies of the public and sales are made. How many store keepers take compassion on the flower peddler and purchase his stock from a sense of duty we are not prepared to say, but we are certain that if these various peddlers would get together in some central location early in the morning, they would do just as much or more business in half the time it now takes them to go over their routes, and at the same time keep their stock in much better condition. There is not a single redeeming feature to the present system, while the market plan has never yet failed to be successful.

Business is fair for the season and shows some improvement over the same time last year, which, if it holds out, will carry out the prediction of a big season. H. Bayersdorfer & Co., and M. Rice & Co., are very busy with their shipping trade, more than usual at this season and are much pleased with the prospect.

Prices of flowers remain about the same except for asters, which are on the wane. The aster probably takes more looking after when it gets to the retailer than any other flower. The lower leaves on good fresh stock will discolor in three hours if kept in jars of water and standing over night almost renders them unfit for sale. Can some one recommend a better way to keep them?

The September meeting of the Florists' Club was well attended, considering the weather. Wm. Monroe, foreman for Myers & Samtman, was elected to membership. What the boys saw at Omaha, was told by Messrs. Craig, Westcott, Habermehl and Longinotte. Mr. Westcott said he was very glad he went; his eyes were opened to things he had never seen before and there was as much business done at this meeting as at any other he had ever attended. He thinks he has convinced the powers that be, that one whole day of the convention should be given up to sports. Many spoke to him of the Philadelphia carnation meeting and the attendance on that occasion will, he thinks, be a record breaker.

Mr. Craig said the plant display of the exhibition was rather disappointing as there was no local stock to draw from and the distance was too great for the eastern shippers. The display of bulbs from the state of Washington he thought the most interesting feature of the exhibition, the stock shown being fully equal and in some respects superior to the best imported. The question of expense would now come in, but if they could be grown as cheap hear as abroad ex-President Smith's dream would become a reality. An interesting point to him he learned at at Chicago and that was that the C. B. & Q. R. R., paid over $5,000, for American Beauty roses last year for use in its dining car service. Here is a field as yet unopened in the east and one that will bear looking into.

W. K. Harris, John Westcott, Edwin Lonsdale, and J. W. Colflesh were nominated for the offices of president, vice-president, secretary, and treasurer respectively, being equivalent to re-election in each instance.

H. F. Michell was present, looking all the better for his European trip which, by the way, is to be the subject for the next meeting, when Mr. Michell will tell us of the many interesting horticultural things he saw while abroad. Charles Sim is also back from his visit to England and says he had a most enjoyable time.

Harry C. Sim, the far western traveler of the Dreer firm, will take to himself a wife next week. Mr. Sim is the last of their seven salesmen to enter into the wedded state.

F. R. Pierson, together with Mr. Cook and Mr. Worthingham, all of Tarrytown, were visitors the past week.

Abraham Knowles' funeral was held on Wednesday last. A committee from the Florists' Club was present and sent a large wreath of cycas leaves garlanded with President Carnot and Beauty roses and orchids as the club's emblem. The body was incinerated and the ashes will be taken to England for interment. K.

Boston.

BUSINESS GOOD.—MUCH FUNERAL TRADE.—WHOLESALE PRICES GOOD FOR SEPTEMBER.—KAISERIN IN DEMAND.—EDGAR'S BEGONIAS.—A NEW FERN.—WREATHS IN ESPECIAL FAVOR AS DESIGNS.—A NEW GARDEN FLOWER CERTIFICATED.

The flower trade can be described as excellent for the season, judging from the amount of work being done by the retailers or the prices being received by the growers. The great bulk of the retail demand is for funeral purposes, and there seems to be an abundance of it on all sides. The seaside trade has not been

over-brisk this year but, such as it is, it still holds on, owing to the steady hot weather that has prevailed for some time. September is making an unprecedented record for high temperature.

The growers are getting better values for their stock than u ual at this season. This refers to good quality stock only as poor stock is not wanted for any purpose. Good Beauties bring from $2 to $3 per dozen, and Kaiserin when well grown and carefully handled is readily disposed of at from $8 to $12 per 100. Meteors come next in desirability and Bridesmaid follows close behind. Bride begins to feel the competition of the Kaiserin as a summer rose but in a few weeks it will easily regain its ascendancy. There is no difficulty in getting $1.50 to $2 per 100 for fine Scotts and white carnations, and even asters, if of the Semple strain and well grown, bring carnation figures, but the common asters are not worth more than 25 cents a hundred. Hydrangea is being used largely as a ground work for funeral designs and with white Japan lilies is a boon for the design makers who would otherwise be obliged to go deep into the cash drawer to get desirable white material.

Wm. Edgar is making a big strike on Begonia Gloire de Lorraine. He has many hundreds of plants already coming into flower and in a few weeks his houses will be a grand sight. A new fern which he is pushing vigorously is Anemia collina, called the flowering fern. The foliage is very tough and well adapted for jardiniere work, and the spikes of greenish bloom are slightly fragrant.

Of twenty of the more elaborate designs sent to the funeral of Maj. O'Connor, of the 9th regiment, ten were wreaths of varied material. There was not a pillow, broken column or gates ajar in the entire collection. This affords a little idea as to how the taste is tending in this locality.

Jackson Dawson received a certificate of merit at the exhibition last week for Polygonum compactum, a lovely pure white garden species of dwarf habit which well merits its title of mountain fleece.

St. Louis.

CARNATION PLANTING NOW PROCEEDS.—ROSES LOOK WELL.—SALE OF PALMS AND FERNS.—SHOW COMMITTEE WILL MEET.—PILGRIMS COME HOME.—CHARLES KUEHN MAKES IMPROVEMENTS.

At last there is a suggestion of the fall season in the air. A general rain throughout this section on Monday brought the temperature down with a jump to 50°. The change was most welcome to the carnation growers, as several of them who believe in early housing had to suspend work during the hot spell. Operations have been resumed, however, and work is progressing nicely. Some violets are also being housed in expectation of early cutting.

Rose stock is looking well; some is a trifle small but will be given time to catch up before cutting. About the best things coming into the market in cut flowers, are Beauties in roses, and Portia and Flora Hill in carnations, some of the latter being especially good for this time of the year. There is quite a lot of poor stock coming in and it drags along until somebody wants a job lot, when it is unloaded. Last week has been reported by several retailers as the dullest they had ever seen, but the last two days have been a marked improvement, one house reporting having been very busy.

The sale held by the St. Louis Cut Flower Co. of palms and ferns, grown in the Old Orchard establishment, has proved quite a success, and is being continued this week as quite a few of the buyers could not be present on the original date. For the convenience of the city trade, the sale is being held at the Michel Plant and Bulb Company's greenhouses. The stock is in elegant shape and reflects credit on the grower.

A call has been issued by the chairman of the chrysanthemum show committee for a meeting. A revision of the preliminary premium list will be the first matter attended to, and the numerous special prizes will be inserted, to give prospective participants a better chance to select the classes they wish to compete in. This will be a new departure and should prove advantageous to the exhibitors. Weekly meetings are in prospect until the show is over.

John Young and daughter and Mr. and Mrs. Fred C. Weber returned Monday from their western trip, which was extended through Colorado from Omaha after the convention. They were all delighted with the country.

Mr. and Mrs. Biechle, of the Riessen Floral Company, returned from the north, stopping several days in Chicago enroute. They report an enjoyable time.

A call on Charles Knehn found his place in the midst of numerous improvements. He has made extensive changes and alterations both in his cut flower and wire working departments, and is better fixed than ever for handling his trade. The preparations look as though he expected a substantial increase in business the coming season.

The bowling club has held its meetings since returning from Omaha at the Grand Alleys, and as they are the only strictly regulation alleys in the city, the supposition is that it will continue to meet there.

R. F. T.

Chicago.

UNUSUAL WEATHER CONDITIONS OPERATE TO THE INJURY OF BOTH STOCK AND BUSINESS.—FANCY CARNATIONS BRING A GOOD FIGURE.—PETER BARR, OF LONDON, IS A VISITOR.—JOTTINGS.

Stock is not what it should be either as to quality or quantity. The erratic weather which we have experienced during the past two weeks is entirely responsible for the reprehensible conduct of the blooms for its influence has been very bad. The tremendously hot period followed by a drop in temperature of nearly 40° was enough to give any class of stock a set back and it did it.

There is a very fair demand for all good blooms but since the weather approached the frost mark they have been scarcer than the week before when the mercury threatened to boil over in the tubes of thermometers. Roses were coming on finely until the temperature went soaring and then there were plenty of them, only a trifle sunburned and wilted, but when the cold wave struck, the blooms stopped coming just as much, as one grower said, "as though the days were all nights."

Here and there, before the cold, some one who planted carnation houses extremely early was cutting a few pretty fair blooms and one or two had "fancies" which commanded $1.50 per hundred. The ordinary stock brought 75 cents and it was only now and then during the week that a fakir was able to strike a bargain, and every time it was in Portia or Scott; not a white flower was sacrificed. It was the same way with roses and the prospects are that, now that society is awakening from its summer siesta, the demand will be fully up to the supply even after the plants recover, as they will in a day or two, from their check.

Among the growers there is an increased activity, but retailers as yet feel little effect from the advent of autumn.

Peter Barr, dean of European horticulturists and famous as a daffodil specialist, has been spending the week in Chicago. On Wednesday Mr. Barr with engineer Schrader, Messrs. Sanders and Vaughan made the circuit of the west park system, calling on the head gardener at all the parks, Zapel at Douglas Park, Sell at Garfield and Kleppin at Humboldt, also on Superintendent Jensen at the latter, finishing the day with a call at Mr. Uihlein's home in Ewing place where gardener H. Skjoldager is in charge. Mr. Barr expressed himself as delighted with the trip and satisfied that the Chicago park system was the finest he had ever seen.

O. J. Friedman has been appointed chairman of a committee to solicit funds for the Peace Jubilee and has able assistants in W. N. Rudd and J. B. Deamud.

Mrs. Horton has resumed her duties at Bassett & Washburn's after a very pleasant two weeks outing among Wisconsin lakes.

E. H. Hunt is spending two weeks among the many Wisconsin resorts.

Wietor Bros., evidently believe that the carnation is a flower of increasing popularity as they are now busy planting and will have nine houses more than last year.

One and the same baby makes James Gurney, of St. Louis, and Fred. Kanst, of this city, proud and happy grandfathers.

James Gurney, superintendent Tower Grove Park and Shaw Botanic Gardens, St. Louis, Mo., has visited here on a trip east.

U. J. and Mrs. Virgin left for New Orleans five o'clock Sunday.

A canna party composed of James Gurney, Peter Barr, Fred. Kanst, Jr., and J. T. Anthony visited the Western Springs establishment of Vaughan's Seed Store Labor Day. Some good things were noticed among the new seedlings.

W. H. Elliott and Mrs. Elliott left Chicago for home Wednesday morning.

Miss Minnie Binder, with J. M. Gasser, and returning from Omaha and points west, spent a few days with friends in the city previous to her departure for Cleveland.

C. B. Totman, representing the Wooden Goods Company, was down from Minneapolis this week.

W. C. Zimmer, of Eve, Mo., who makes roses a specialty, saw the sights in Chicago for a couple of days this week while enroute home from a pleasant visit with relatives in Indiana and Michigan.

A. J. Schmidt and R. Mayer have leased the Reissig houses at Riverside and have prospects of a fine business. Both gentlemen are good growers, being former employes of Lincoln Park.

BELOIT, WIS.—John Rindfleish is moving his greenhouses to a new location and is considerably enlarging his establishment.

HUDSON, N. Y.—The greenhouses of J. Hallenbeck have been sold to D. H. Saunders, who will move them to Athens and use them for vegetable forcing.

ANDOVER, MASS.—The Florists' and Gardeners' Club has decided to abandon the exhibition which they proposed to hold in September for the school children and public of Andover, because of the small number of entries and slight interest manifested.

THE AMERICAN FLORIST

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

PROF. HERBERT L. JONES, of the department of botany in Oberlin College, Ohio, died at the home of his parents in Granville.

"WAR aint no bloomin' chrysanthemum show" was the all too truthful remark of a soldier-florist recently arrived from Cuba.

THE excellent collection of the flora of Greenland made in 1895 and 1896 by Evelyn B. Baldwin, the arctic explorer now with Wellman, will be permanently installed in the botanical laboratories of of Northwestern University, Evanston, Ill.

THE third annual chrysanthemum show of the Texas State Floral Society will be held at Waco, Texas, November 10, 11 and 12. The premium list, just issued, is bound in patriotic colors and contains essays on chrysanthemum culture as well as class and prize lists and the roster of the 200 members of the society. Mrs. Louis Crow is secretary and James Morton, Clarksville, Tenn., will judge the exhibits.

REFERRING to the times of Richard Hartland, grandfather of Wm. B. Hartland, the daffodil grower of Cork, Ireland, Brother Fraser, of the *Gardening World*, remarks that Nemophila insignis and Collinsia bicolor were then grown in the Emerald Isle. While it is stated that the elder Hartland died in 1821, as a matter of fact these plants were not known in either British or Irish gardens until 1833. Both plants are natives of California.

Cut Flower Price Lists Received.

Bassett & Washburn, Chicago; Holton & Hunkel, Milwaukee; Vaughan, McKellar & Winterson, Chicago.

Catalogues Received.

W. P. Simmons Co., Geneva, Ohio, plants; New Jersey Moss & Peat Co., Barnegat, N. J., moss and peat; Western Seed & Irrigation Co., Waterloo, Neb., seeds; T. S. Hubbard & Co., Fredonia, N. Y., small fruits; Wooden Goods Co., Minneapolis, Minn., labels; Thompson's Sons, Rio Vista, Va., strawberry plants; Henry A. Dreer, Philadelphia, Pa., strawberry plants; J. H. H. Boyd, Gage, Tenn., tree seeds; Geo. H. Hanock, Grand Haven, Mich., carnation plants; Hugh Low & Co., Middlesex, Eng., shrubs; Vilmorin-Andrieux & Co., bulbs and seeds; Julius Hansen, Pinneberg, near Hamburg, Germany, lily of the valley crowns; E. Schwartz, Tempelhof, near Berlin, Germany, lily of the valley crowns.

Greenhouse Building.

Doylestown, Pa.—J. E. Andre, one rose house.

Conshohocken, Pa.—W. S. Harry & Sons, two commercial houses.

Mt. Joy, Pa.—M. E. & R. Hoffer, range of greenhouses.

E. Palestine, O.—D. Faulk, one commercial house.

Bangor, Me.—A. Sekenger, one commercial house.

Hartford, Conn.—E. M. Francis, two greenhouses.

Baltimore Co., Md.—Jesse Tyson, two palm houses, two greenhouses and one grapery.

Glastonbury, Conn.—J. R. Morgan & Son, one commercial house.

Newton, Mass.—W. R. Sanderson, one house 20x50.

Woodside, N. Y.—A. S. Burns, one house 16x70.

Framingham, Mass.—S. J. Goddard, two commercial houses, each 20x100, one 12x95, one 12x40 and a packing room 40 feet long.

Detroit, Mich.—City greenhouse to cost $3,475.

Wheaton, Ill.—A. T. Peterson, two commercial houses.

Greenhouse Heating.

ED. AM. FLORIST:—I have a greenhouse 20x120, east and west, which I propose to divide into two parts, one seventy feet for roses on benches, the remaining fifty feet for carnations on solid beds. There is a row of 16-inch glass on the south side, but the north side is double planking with paper between. How much steam pipe do I require? Each part of the house to be piped separately, the seventy foot end, that nearest the boiler, having 1½-inch pipe and the fifty-foot end having 2-inch pipe. Kindly tell me the amount of radiation to allow for each square foot of glass. U. S. G. H.

Where the temperature does not drop more than 10° below zero one 2-inch main and ten 1½-inch returns will answer for the rose house, but in a severe climate it would be advisable to increase the size of the supply pipe, and add about two returns for each ten degrees of cold.

For the carnation house one 2-inch flow and five 2-inch returns should suffice for average conditions, but the number should be varied about one pipe for each ten degrees difference in temperature.

L. R. TAFT.

A Question of Coal.

ED. AM. FLORIST:—I am putting in a new hot water boiler and had planned to use soft coal, but am told by some that with hard coal there is less danger of gas. Can you tell me whether there is or not? What is the best coal to use and where can I buy it the cheapest?

Iowa. L. E. P.

With a properly arranged plant there will be little if any more danger from gas when soft than when hard coal is used. The heater should be especially constructed for burning soft coal, with large fire openings and with the surfaces so arranged that they will not invite the settling of soot. The heater should have all parts easily accessible for cleaning. To equal a heater burning hard coal the size of one to be used with soft coal should be twenty-five per cent larger. The chimney should also be rather larger and higher. Any good run of mine coal will answer, but as the question as submitted only shows that "L. E. P." lives in Iowa, I cannot advise where to purchase coal, beyond saying that he should be able to get low rates by the carload from some of the north Missouri mines, with which he has ready railroad communication.

L. R. TAFT.

Pinching Smilax.

ED. AM. FLORIST:—Is it right to pinch back the young growths of smilax plants after they are planted in the beds? If so, when should this pinching process be stopped and the growths trained to the string? Should the ventilators be left open nights, or closed? The house is planted entirely with smilax.

SMILAX GROWER.

Replying to above, there is nothing gained by pinching smilax until it has grown to the desired length. Strings should be attached to thrifty growing plants as soon after they are planted as is convenient and practicable. It is much easier manipulated then than if allowed to become entanged, for to attempt to disentangle the vines is tedious and not at all profitable. The ventilators should be at all times left open at night if the temperature is not lower than 65°. The warmer the house is kept the quicker the smilax grows, provided, of course, sufficient moisture is given; but a quick growth, is a soft growth, and that is not always desirable, because after being cut when in that condition it wilts too quickly to be satisfactory. Some growers prefer to keep the night temperature, when controllable, that is, after firing is commenced, as near as possible to 55°. It is then hard enough to cut on emergency at any time. Others grow it more rapidly, say in a night temperature of 60° to 65°, and put it through the hardening process when most of the strings have attained the desired length. When a florist uses the most of what he grows in his retail business, he frequently finds it necessary to use some strings before it is long enough to cut from the grower's standpoint, who disposes of his stock at wholesale. Personally, I am inclined to believe when smilax is grown under the warmer temperature it is the most profitable.

E. L.

Accelerating Smilax Growth.

ED. AM. FLORIST:—I have a house of smilax, planted the first week in August in good, rich soil. Do you think I can have it in for Christmas? How can I hasten its growth? It is quite small.

A NEW BEGINNER.

Smilax planted the first week in August ought to be ready to cut at Christmas, that is to say the bulk of the crop should be fit to cut at the time indicated, for, as a rule, it is not all ready for the knife at the same time, which, generally speaking, is an advantage. "A New Beginner" states: "It is quite small," which is somewhat indefinite. We have planted smilax from 2-inch pots about the middle of September, and most of the strings were ready to cut in December. The balls of earth in which they were growing were a mass of living, hungry roots. The plants were quite strong, considering they were growing in what are popularly known as thumb pots, throwing up vigorous shoots at the base of the plants, and, with the subsequent treatment, moved along rapidly. They should re

ceive abundant supplies of water, at least twice a day during bright days. In a well drained bed, with a porous soil, it is almost impossible within reason to give thrifty plants of smilax too much water. Three essentials to the successful cultivation of smilax are heat, moisture and a rich porous soil. The temperature is not easily controlled during the hot months of summer and fall, but when fire heat is commenced a night temperature of from 60° to 65° is all right, the latter mark being the best when rapid growth is the great desideratum. If "A New Beginner" contemplates selling his product at wholesale, he will find it necessary to harden it off after the strings have grown to the desired length, which is accomplished by the judicious withholding of water, giving only enough to sustain it in a thrifty condition, and by ventilating freely during favorable weather and reducing the night temperature about 10°. E. L.

The American Carnation Society.

In order that there may be no confusion, it will be well to have it understood by the growers of seedling carnations, that the registration adopted by the S. A. F. is not intended to and does not conflict with the registration method of this society.

Most growers have fallen into line, and when they have a variety that will be introduced to the trade or grown commercially they have it registered. Those who have not should do so at once. The cost of one dollar, which covers all the expense of registering a name, is simply a well invested dollar in the way of advertising, as the name and description are both printed in the report and in the trade papers, through their courtesy to the society. In addition to this free advertising, when the name is registered with this society it is recognized by the trade everywhere as an official matter.

When it is not registered the grower is more than likely to take up the name of some variety that has dropped out of existence, and this causes confusion with the old variety and is often a hinderance to the sale of the new. The American Carnation Society is now at work on a re-arrangement of the list of all carnation names to date. They will be in alphabetical order and easy for reference. As there is something like a thousand names the seeker for a new one can readily see how important this list will be to him. This list, with blank for registration, will be sent to all members of the society and to any others who ask for it.

This society anticipates a very successful meeting in Philadelphia next February and will have the most attractive premium list ever offered in this country for carnations. In addition to the money premiums there will be offered several handsome cups. One of these, given by E. H. Michel, of St. Louis, Mo., will cause some lively competition. There will also be a valuable cup offered for the best arrangement of carnations by a retailer. A host of other good things are in store for carnation growers, further particulars of which will be given when arrangements are completed. Suggestions for the good of the society, special premiums, etc., are always in order and the secretary is ready to receive them at all times.

CERTIFICATES.

Under date of September 5, the officers of the society mailed the following to its members: "In order that there may be no misunderstanding regarding the awarding of the certificate of merit, this card is sent you at planting-in time, to remind you that it takes fifty blooms and *a plant* taken from the bench in which the stock is growing—and that the variety must have been bloomed not less than three years to secure a certificate of merit.

A preliminary certificate is granted to varieties if twelve blooms are shown, and the variety need not have been bloomed three years, neither need a plant be shown"

ALBERT M. HERR, Sec'y.
Lancaster, Pa.

Cincinnati.

BUSINESS BEGINS TO BUSTLE.—THE GRAND ARMY TAKES POSSESSION OF A CITY.—DEATH OF MRS. MAGRIE.—RUDOLPHS RETURN FROM GERMANY.

The past week has been quite an agreeable surprise all around and actually was a reminder of the busy season. Our city is at present flag-bedecked and flower-festooned, and the familiar blue uniform with its brass buttons and the bronze star and ribbon of the Grand Army are to be seen everywhere upon the street. Originality in decoration seems to be the aim of all the business houses. The boys are getting ready for the great parade, and a company of hustlers such as F. Ball, C. Jones, J. Baer and others will commence on that wagon which has occasioned so much talk among the florists.

With much regret I report the death of Mrs. Geo. Magrie, of College Hill. Mrs. Magrie has been a resident of that suburb for over thirty-five years, and leaves a son and three daughters, all of whom are connected with the business. She was buried September 4 at Spring Grove, and the pall bearers were selected from old friends among the craft. The deceased was 65 years of age and highly respected by all who knew her.

Mr and Mrs. Max Rudolph returned from their trip to Germany Saturday last.

Some excellent lilies of the valley twelve inches long are coming in from the well known firm of George & Allen.

Mr. J. T. Conger, formerly of Barnesburg, O., has removed and is now located at Hartwell, O. H. SCHWARZ.

SEYMOUR, IND.—M. A. Barick has purchased the greenhouses and stock of Wm. Meseke.

ELMIRA, N. Y.—The Elmira Horticultural Society has decided to hold a chrysanthemum show in November.

KANSAS CITY, MO.—A. Blankenfeld has moved his place of business to 3824 Main street and has put up three modern houses each 20x100.

WILLIAMS BAY, WIS.—Frank T. Manahan has leased a new and very desirable site for the greenhouses of the Williams Bay Floral Company.

MANCHESTER, MASS.—Mrs. Clarke, wife of J. W. Clarke, gardener to H. L. Higginson, and mother of J. W. Clarke, Jr., gardener to J. E. Thayer, Lancaster, died August 24, of heart failure.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED—By gardener and florist, single, 40; first-class refs. J J, care Am. Florist.

SITUATION WANTED—As fireman or general greenhouse work; 20 years' experience, middle aged, married, sober. Address H. W. HELLMAN, Box 81, Oak Park, Ill.

SITUATION WANTED—By first-class designer, cut flower worker and decorator. Well posted in the care and handling of palms Western states preferred. Good references. Married. Address M R, care American Florist, Chicago.

SITUATION WANTED—As foreman for a large commercial place. Thoroughly experienced in growing roses and carnations for the wholesale trade; single, 32, (Ohio preferred); salary $40 per month. Address GROWER, care American Florist.

SITUATION WANTED—By experienced florist as foreman good commercial or private position. Specialties—fine roses, carnations, 'mums, violets, etc.; good designer. Best references. Address P. O. Box 547, Alliance, O.

SITUATION WANTED—By a good florist, German, 30 years old, married; grower of roses, carnations, 'mums, etc.; first-class designer. Position, private or good commercial, or in a store; good salesman. Best references. Address C W, care American Florist, Chicago.

SITUATION WANTED—By a first-class florist, thorough specialist in any line of the business. Able to take charge; 23 years' experience on large commercial and private places. None but first-class parties need apply. Address J A, Box 63, Western Springs, Ill.

WANTED—One good man for rose work. Wages $40 per month Send references. BENJAMIN DORRANCE, Dorranceton, Pa.

WANTED—Two young men with some knowledge of the culture of roses or carnations and greenhouse stock Address C C, care of American Florist.

WANTED—Two assistant florists for rose and carnation houses; single men; state wages. F. BURKI Bellevue, Allegheny, Pa.

WANTED—Improver, with one year's experience at greenhouse work Answer, stating wages, without board. Good position to a smart young man. Address H Y Z, care American Florist.

WANTED—Nursery foreman. State experience and salary required. Must be familiar with ornamental trees and shrubs, and must be temperate. THE LOVETT CO, Little Silver, N. J.

WANTED—It known that anyone wishing to employ Otto Schubert as rose grower, his last place being Fort Thomas, Ky., can get valuable information through CARL HIRSCH, Hinsdale, Mich.

WANTED—Competent, practical and responsible grower to take charge of store and greenhouses of wholesale and retail florist business in a western city. Address B B, care American Florist.

WANTED—Assistant foreman who is capable of growing roses, carnations and general greenhouse stock. Wages $.0 per month and board. Steady place. Address M I, care American Florist.

WANTED—Florist who is capable of growing roses carnations and general greenhouse stock. Wages, with board, $20 per month. Steady place. Reference from last place required. Apply to O. G. JOHNSON, Kingston, Ontario, Canada.

FOR SALE—Four greenhouses, nearly new Good retail stand. A. CLAUS, Springfield, Ill.

FOR SALE OR RENT—Good retail stand, 5000 feet of glass (new), has never paid less than $1300 per year net. Must buy stock. Reason for quitting, failing health Address ILL, care Am. Florist.

FOR SALE—Three greenhouses; 3,700 feet of glass with good office; city water, telephone and all modern improvements found in an up-to-date place; immediate possession given. Address H. D. CALDWELL & CO, Paris, Ill.

FOR SALE—Leading florist business in western city; store connected with conservatory in principal hotel; 6000 feet of glass, and houses for 10,000 feet more, all except the roofs in good condition, including plants, and full equipment. Terms to suit. Address WESTERN, care American Florist.

FOR RENT—To reliable party, 11 greenhouses, 16,000 ft. glass, newly rebuilt last year; also store, 7-room house and barn. Business established 15 years. Finest location in Chicago Or will sell greenhouses separate. Cause, poor health. Address GARFIELD PARK FLORAL CO., Mrs. Decker, Prop. 1688 W Madison St., Chicago.

FOR SALE!

Three greenhouses with fine office and retail trade in cut flowers. Houses all new; two lots 72x132, in best residence part of city of 5000. Nice transient trade. Houses stocked with best roses, carnations, etc. Must sell on account of other business. Will sell at a big bargain for cash, or part cash, balance to suit. Investigate. Address

H. R. WINN, Martinsville, Ind.

CHICAGO LOTS FOR SALE

One block from corner of Lincoln Avenue and Wellington Street, a bunch of lots at $20.00 per front foot; sewer and water. Suitable for greenhouse purposes.

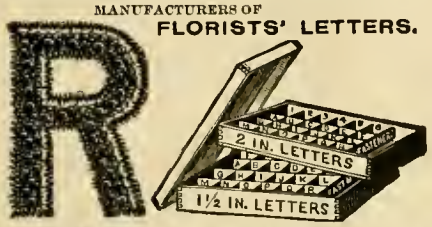
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Tel. Main 3868. Room 5, 154 Lake St., Chicago.

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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 ½ or 2-inch size, per 100, $2.00.
Script Letters, $4. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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84 Hawley St., BOSTON, MASS.

Mention the American Florist.



HARDY CUT FERNS

FANCY or DAGGER

Fine quality, 75c per 1000; Sphagnum Moss, 50c per bbl.; Bouquet Green, 5c per lb.; also Xmas Trees for sale. Cash with order. All orders by mail or dispatch promptly attended to.

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Hinsdale, Mass.

John Conley & Son,

Manufacturers of

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2 AND 4 DOMINICK STREET,
New York.

REED & KELLER.....

Florists' Supplies

122 W. 25th St., NEW YORK CITY.

FLORISTS' MUTUAL

FIRE INSURANCE ASS'N

Application Blanks and Prospectus Ready....

☞ Write now. Delays are dangerous.

W. J. VESEY, Sec'y, - Ft. Wayne, Ind.

HAIL

For Insurance Against Damage by Hail

Address

JOHN G. ESLER, - Sec'y F. H. A.,
SADDLE RIVER, N. J.

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DIRECTORY Of Florists, Nurserymen & Seedsmen of the United States and Canada. Price Two Dollars. In Flexible Leather Binding, Three Dollars.....

AMERICAN FLORIST COMPANY
324 Deerborn St., CHICAGO, ILL.

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....AMERICAN FLORIST

when you write to an advertiser.

Pittsburg Cut Flower Co. Limited

705 Penn Avenue, PITTSBURG, PA.

...WHOLESALE CUT FLOWERS...

Long Distance Phone 2157. Consignments of Choice Cut Flowers Solicited.

When writing mention American Florist.

Wholesale Flower Markets

CINCINNATI, Sept. 8.

Roses, Brides, Bridesmaids	2.00@ 3.00
" Meteors	3.00
" Perles	2.00@ 3.00
Carnations	.75@1.00
Tuberose	3.00
Lily of the valley	4.00
Smilax	10.00@12.50
Adiantum	1.00
Asparagus	50.00
Asters	.75@ 1.00
Common ferns	.15

ST. LOUIS, Sept. 8.

Roses, Beauties	3.00@15.00
" Meteors	2.00@ 5.00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	2.00@ 3.00
" Kaiserins	2.00@ 6.00
Carnations	1.00
Asters	1.00@ 1.50
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@75.00
Gladioli	3.00
Tuberose stalks, single and double	3.00

MILWAUKEE, Sept. 8.

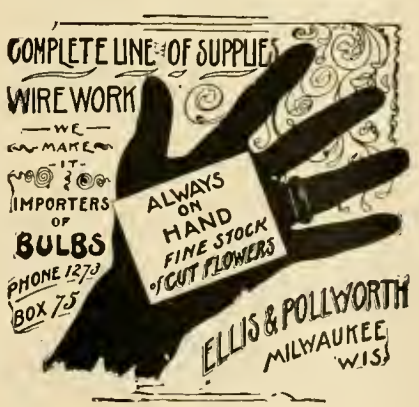
Roses, Beauties	5.00@20.00
" Brides, Bridesmaids	1.00@ 4.00
" Perles	1.00@ 3.00
" Meteors	1.00@ 4.00
" Kaserins	2.00@ 5.00
Carnations	.50@ 1.00
Gladioli	2.00
Smilax	10.00@15.00
Adiantum	.75@ 1.00
Common ferns	.20
Asparagus	50.00
Asters	.50@ 1.00
Common ferns	.20

BUFFALO, Sept. 8.

Roses, Beauties	5.00@25.00
" Brides, Bridesmaids	2.00@ 6.00
" Meteors	2.00@ 6.00
" Perles, Niphetos	1.00@ 3.00
" Kaiserins	2.00@ 6.00
Carnations, ordinary	.50@ 1.00
" fancies	1.00@ 2.00
Lily of the valley	4.00@ 5.00
Smilax	10.00@15.00
Album roseum lilies	5.00@ 6.00
Asters	.50@ 1.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Gladioli	1.00@ 2.00
Hardy Ferns per M, $1.50	

LOUISVILLE, Sept. 8.

Roses, Beauties per dozen	.75@1.50
" Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" Kaiserins	2.00@ 4.00
" Perles	1.50@ 2.00
Carnations, fancy	1.25@ 1.50
" common	1.00
Mignonettes	.25
Smilax, per dozen	1.25@ 2.00
Adiantum	.75
Asparagus, per string	.50
Dagger ferns per M, $1.00	
Fancy " "	1.50
Asters	1.00@ 1.25



GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

WM. F. KASTING WHOLESALE COMMISSION FLORIST....
495 Washington St., Buffalo N. Y.
Also Dealer in Florists' Supplies and Wire Designs

Out of Town Trade,

that oft absent feature that every florist covets, is gotten and readily held by means of LONG'S FLORAL ART CATALOGUE....

Its sixteen pages include Cut Flower list, ordering details, code, etc., and ninty-six Arrangements finely illustrated and priced. Exclusive in character.

Sample copy with price list, 25 c's. in stamps.

Dan'l B. Long, Publisher Buffalo.

M. Rice & Co.

Exclusive Importers and Manufacturers of....

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25 N. 4th Street, - PHILADELPHIA, PA.

H. BAYERSDORFER & CO.

Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

New Catalogue of all FLORISTS' SUPPLIES on application. ☞ For the trade only.

H. BAYERSDORFER & CO.
50, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

Hardy Cut Ferns!

SPHAGNUM MOSS, 40c BBL.

Bouquet Green, Galax Leaves, Laurel Roping, &c. &c. Everything in green line always in stock at

H. E. HARTFORD'S, 18 Chapman Place, BOSTON.

BRILLIANT GREEN AND BRONZE

GALAX LEAVES,

For Decorating and all Florists' Designs.

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C

Illinois Cut Flower Co.

J. B. DEAMUD

51-53 WABASH AVE.

CHICAGO

PRICE LIST

	Per 100
Brides, Bridesmaids, Meteors	$2 to $3
Perles	$2
Carnations	50c to $1
Valley	$4 to $5
Tuberose Spikes	$5 to $6
Asters	50c to 75c
Asters, fancy	$1 to $1.50
Hydrangeas, large	$5
Hydrangeas, fancy	$6
Asparagus, per string, 40c to 50c	
Smilax	$8 to $10
Common Ferns, per 1000, $1.50	20c
Adiantums	50c

V. M. & W.

Wholesale Florists

47 Wabash Avenue, CHICAGO.

E. C. AMLING

Wholesale Cut Flowers

51 Wabash Avenue,

W. S. HEFFRON, Mgr. CHICAGO.

Wholesale Flower Markets

CHICAGO, Sept. 9.

Roses, Beauties.....per doz.	.50@2.50
" Brides	2 00@ 3.00
" Kaiserins	2.00@ 4.00
" Bridesmaids	1 00@ 3.00
" Perles	1.00@ 3.00
" Meteors	2 00@ 3 00
Carnations	.50@ 1 00
Asters, common	.50@ .75
" fancy	1 00@ 2 50
Lilies	8.00@10.00
Lily of the valley	3.00@ 4.00
Gladioli	2.00@ 3.00
Adiantum	.50
Common ferns	.20
Smilax	10.00@12.00
Asparagus	30.00@50.00
Tuberose spikes	3.00@ 6 00
Cattleyas	50 00

Tell your wants in the American Florist.

Reinberg Bros.

Wholesale Growers of CUT FLOWERS

600,000 FEET OF GLASS!

We can fill all orders on short notice with all leading varieties of Roses and Carnations.
We ARE Headquarters for Fine AMERICAN BEAUTIES. Give us a trial and convince yourself.

51 Wabash Avenue, CHICAGO.

A. G. PRINCE & CO.

Wholesale Cut Flowers

AND FLORISTS' SUPPLIES.

Agents for the Hinsdale Rose Co. Special attention paid to shipping orders.

88 & 90 Wabash Avenue,

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2740 Olive Street, ST. LOUIS, MO.

FLOWERS at WHOLESALE....

.....ROSES, and a full line

Headquarters for the South West.....

GEORGE M. MOSS,

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Will Open Sept. 1st.

Ten years' experience. Consignments of first-class Roses, Carnations, Violets and other flowers solicited. Every up-to-date facility for handling stock.

Long Distance 'Phone 1-41-26 D.

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Lynch WHOLESALE FLORIST.

19-21 E. RANDOLPH ST. CHICAGO

WHOLESALE GROWER OF ROSES. DEALER IN CUT FLOWERS.

J. A. BUDLONG,

37-39 Randolph Street, CHICAGO, ILL.

S. B. WINTER,

(Successor to WINTER & GLOVER,)

21 Randolph St., Chicago.

HIGH GRADE CUT FLOWERS,

PACKED RIGHT,

so they will reach you in just as good condition as they reach us.

WIRE DESIGNS: A Full Line. Write ue for our Illuetrated Catalogue.

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Special facilities for shipping south. Unequalled returns for good stock. Open night and day.

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Bassett & Washburn

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A. L. RANDALL

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Don't Forget that we are at 4 Washington St., Chicago.

Write for special quotations on large orders.

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Wholesale Florist,

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ST. LOUIS, MO.

☞A complete line of Wire Designs.

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Consignments Solicited. Special Attention Given to Shipping Orders.

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SUCCESSORS TO The Wisconsin Flower Exchange.

Fresh Cut Flowers, Florists' Supplies

Manufacturers of WIRE DESIGNS

Consignments Solicited. Phone Main 374

457 Milwaukee St., MILWAUKEE.

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The American Florist Company's Directory of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Price $2.00. In Flexible Leather Binding, $3.00. Fully revised to date with upwards of 3,000 New Names

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MacDonald & McManus

... SUPPLY ... ORCHIDS EVERY DAY

ONLY HOUSE IN NEW YORK HANDLING
EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

TELEPHONE 2778 38TH STREET.

50 West 30th Street, NEW YORK CITY.

Choice Carnations Choice Roses

Traendly & Schenck

NEW YORK CITY

38 W. 28th Street Cut Flower Exchange

M. A. HART,

Commission DEALER IN Cut Flowers,

44 WEST 29TH STREET,
NEW YORK CITY.
THE BEST MARKET IN NEW YORK.
'Phone 1307 38th St.

CITY HALL CUT FLOWER MARKET

WELCH BROS., Proprietors.
The New England Headquarters for the best grade of flowers at all seasons of the year....

9 Chapman Place, 15 Province Street,
BOSTON, - MASS.

THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,
112 and 114 West 24th Street,

Telephone 733—18th. NEW YORK.

CONSIGNMENTS SOLICITED.
Special Attention Given to Shipping Orders.
Mention American Florist.

JOHN YOUNG,

ROSES, CARNATIONS, VALLEY
and all other choice cut flower stock.
51 W. 28th Street, NEW YORK.
Price list on application.

Wholesale Flower Markets

NEW YORK, Sept. 7.

Roses, Beauties	5.00@25.00
" Bridesmaids, Testouts, Brides	.50@ 3.00
" Morgans Perles	.50@ 2.00
" Meteors, Kaiserins	2.00@ 6.00
Carnations	5.00@ 1.00
Lily of the valley	1.00@ 3.00
Smilax	8.00@10.00
Asparagus	40.00@50.00
Cattleyas	40.00
Asters	.25@ 1.00
Gladioli	.50
Hydrangeas	.50@ 1.00

BOSTON, Sept. 7.

Roses Beauties	5.00@25.00
" Kaiserins	8.00@10.00
" Meteors	4.00@ 8.00
" Brides, Bridesmaids	2.00@ 6.00
Carnations	1.00@ 2.00
Lily of the valley	2.00@ 3.00
Smilax	10.00@12.00
Asparagus	50.00
Adiantum	.50@ .75
Asters	.25@ 1.50

PHILADELPHIA, Sept. 7.

Roses, Beauties	3.00@12.00
" Brides, Bridesmaids	2.00@ 4.00
" Kaiserins, Meteors	2.00@ 6.00
Carnations	.75@ 1.00
Lily of the valley	3.00@ 5.00
Japanese lilies	4.00@ 6.00
Cattleyas	35.00@40.00
Smilax	12.50@15.00
Asparagus	25.00@35.00
Adiantum	1.00
Asters	.50@ 1.00

SAMUEL S. PENNOCK

1612-14-16 LUDLOW ST.
PHILADELPHIA, PA.

WHOLESALE FLORIST.

FINE VALLEY ALWAYS ON HAND.

Asparagus Plumosus Nanus.

Strings 10 to 12 feet long,
50 CENTS.
W. H. ELLIOTT, Brighton, Mass.

Now They're Cheap!!

FLOWERS, ALL KINDS.
PLENTY OF THEM AT
J. K. ALLEN'S 57 WEST 28th STREET, NEW YORK.
TELEPHONE 382 38th St.

GALVIN & CO.

Wholesale Florists
AND DEALERS IN ALL
FLORISTS' SUPPLIES,
4 Ordway Place, BOSTON, MASS.
Cut Flower Consignments Solicited. Best market.

JAMES M. KING

Commission Dealer in
CUT FLOWERS.
Good Money for your Flowers.
Good Flowers for your Money.
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GEORGE A. SUTHERLAND,

Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

Wholesale Florists
ALWAYS ON HAND:
CARNATIONS,
BRIDESMAIDS,
BRIDES.

N. F. McCarthy & Co.

JOBBERS IN FLORIST'S SUPPLIES.
FLORISTS' VASES.
Horticultural Auctioneers.
84 HAWLEY STREET, - BOSTON.

One Good Flower

is worth fifty poor ones
but is harder to find in
summer.

Give us timely notice and
we will do the best we can

John I. Raynor

49 WEST 28th STREET
NEW YORK CITY.

THOS. YOUNG, JR.

Wholesale Florist

43 West 28th Street, New York.

WALTER F. SHERIDAN,

WHOLESALE
FLORIST,
39 West 28th Street, NEW YORK.
Roses shipped to all points. Price list on application.

ROSES LILIES

JULIUS LANG

53 WEST 30th STREET
NEW YORK
CARNATIONS SMILAX

Edward C. Horan,

34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.
Careful Shipping to all parts of the country.
Price list on application.

WM. C. SMITH,

Wholesale Florist,
40 So. 16th St., PHILADELPHIA.
Consignments Solicited. Special attention given to shipping orders
Long Distance Telephone 5008 A.

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404-412 E. 34th St. Near Ferry.
Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

Ford Bros...

Wholesale Florists
111 West 30th Street, NEW YORK.
Consignments Solicited. Telephone, 260 38th St.

FRANK MILLANG,

CUT FLOWERS,
WHOLESALE COMMISSION,
408 E. 34th Street,
Cut Flower Exchange. NEW YORK.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

AUG. RHOTERT and Mrs. Rhotert returned September 2 on the Augusta Victoria from a ten weeks' European trip.

EUGENE SCHAETTEL, of the firm of Vilmorin-Andrieux & Co., Paris, France, will arrive in New York September 18, on the Normandie.

VISITED CHICAGO: James O'Neill, of Landreth & Sons, Philadelphia; W. J. Langbridge, representing Jerome B. Rice & Co., Cambridge, N. Y.; W. M. Clair, Jr.; J. E. Northrup.

E. CURRIE, of Currie Bros., Milwaukee, was in Chicago last week, lately returned from a month's sojourn in Dakota; he intended spending a week in La Salle county.

A NORTH CAROLINA tuberose grower reports the bulb crop looking well. Rains have been frequent, so much so that they can now be dispensed with. A fair proportion of extra sized bulbs may be expected. Caladium fields are also looking very fine.

COLUMBUS, O.—On September 4 W. Donnan Livingston died of typhoid fever after an illness of four weeks. He was a member of the firm of A. W. Livingston's Sons and had a host of friends among florists and seedsmen, as also among the leading business men of his home city. He was 45 years of age and leaves a wife and two sons to mourn his untimely death.

Long Island Reports.

MATTITUCK, L. I., August 31.—The seed crops of Long Island this year are very disappointing and unsatisfactory. Excessive rains during the early spring were followed by a severe drought during June which prevented the seed from filling well. This was in turn followed by a period of excessive rains which extended through the harvesting season and made it impossible for growers to secure their seed crops in good condition, a considerable part of that actually grown being wasted and spoiled on account of continuous wet weather. Taken altogether, there is not more than half an average crop here and the smallest one harvested for more than ten years. J. M. LUPTON.

Order Sheets in Catalogues.

The report which seems to have obtained somewhat general circulation that a ruling has been made by the officials of the Postoffice Department at Washington to exclude printed envelopes and order sheets enclosed loosely in seed catalogues is entirely erroneous. Advices from the Postoffice Department indicate that they can be enclosed and mailed as heretofore. Under date of June 16, 1898, (see U. S. Postoffice Guide for July) a ruling was made excluding perforated inserts or coupons intended for advertising purposes from newspapers and publications mailed at second class rates. This has no reference whatever to seed catalogues.

S. F. WILLARD, Sec'y,
Am. Seed Trade Association.

German Flower Seed Crops.

ERFURT, Aug. 19 and 25.—The weather this season has been abominable. We had no good winter weather. With the early spring came a continuous cloudy and rainy season, delaying planting until the middle of May. June was cold and so was the first half of July, during which month we had to start the fires in the greenhouses. The weather changed toward the end of July, since which time we have had terrible heat. The pansy seed harvest did not begin until about that time.

Stocks, asters, mignonette and most annuals are now in good shape, but are needing rain. The more tender plants, such as portulaca, balsams, etc., are not up to expectation. Owing to the unprecedented heat thus far in August, all kinds have ripened so rapidly that we now hardly know which to harvest first.

On August 25 we had the first rain for some time and it helped the asters materially, as the plants were already wilting. In general, crop prospects may be called good.

Sweet peas will give a middling crop if they can be gotten under cover in good order, although a great many have burst the pods on account of the heat.

J. D. Eisele, of H. A. Dreer, was a recent caller.

LETTERS.

MARTINSVILLE, IND.—H. R. Winn has sold his greenhouses to Charles Lustgarten, of New York City.

HUMBOLDT, KAS.—Miss Irene Heath has built a greenhouse and embarked in business in a general way.

CEDAR RAPIDS, IA.—The barn of I. N. Kramer & Son was destroyed by fire caused by lightning the night of August 17.

NEW BEDFORD, MASS.—The greenhouses of E. C. Sherman have been rented to John Powers, who was recently gardener at the Howland estate.

TORONTO, ONT.—A. Gilchrist was thrown from his carriage by his horse stumbling. He struck upon his head and shoulders and was badly bruised.

BURPEE'S
SEEDS
PHILADELPHIA.
Wholesale Price List for Florists and Market Gardeners

The Only Machine
on the market for automatically filling and sealing seed packets.
The Brown Bag-Filling Machine Co.
FITCHBURG, MASS., U. S. A.

IF YOU
or your neighbor have any reason to wish a change in the manner in which you are listed in our 1898 Directory, drop us a postal card now, to aid us in the work of revision for the next issue.
THE AMERICAN FLORIST CO.
.....324 Dearborn St., Chicago.

Missed the train!
Very annoying thing, missing a train! Of course you can take one later, but you can never make up for lost time, lost opportunities. Don't miss this chance of money-saving which I again offer this week; you can buy these later, but not at so low a price for the quality. TOBACCO STEMS, fresh and strong, baled and delivered to depots here at $8.00 per ton; half ton lots at same rate. LEAF TOBACCO DUST, the genuine article (not ground stems) $3.00 per 100 lbs. (10-lb. trial bag 50c). Remit by check, P. O. O., Express M. O., or Reg. Letter. Stamps taken for small amounts.
G. C. WATSON
Juniper and Walnut Sts.
PHILADELPHIA.

FRESH
Mushroom Spawn.
The BEST and most productive type of English Spawn. Quality and condition guaranteed.
G. H. R. is prepared to ship large quantities throughout the coming season. Lowest terms upon application.
G. H. RICHARDS,
MANUFACTURER.
124 Southwark St., LONDON, S. E.
Will unknown correspondents please enclose London references.

ENGLISH

Mushroom Spawn
New Importation just received.
01bs. $1.00; 100 lbs. $7.50 . o. b. Chicago; $7.00 per 100 f. o. b. New York.
Vaughan's Seed Store
CHICAGO.
NEW YORK.

COLD STORAGE VALLEY ALWAYS ON HAND.
CASES of 2500 pips, extra quality, $25.00; per 1000, $12.00.
CASES of 3000 pips, good quality, $25.00; pe 1000, $10.00.
CLUCAS & BODDINGTON CO.,
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Mention the American Florist.

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A Weekly Illustrated Journal.

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THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

A. L. BROOKE, Pres.; E. ALBERTSON Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

PHILIP PHEIFFER, the well known nurseryman of Sedalia, Mo., died August 28. He was born in Darmstadt, Germany, in 1835.

CASPER HILLER, of Conestoga, Pa., who had a national reputation as a fruit grower and for many years was prominent in the State Horticultural Society, is dead. His age was 81.

Nomenclature of Hardy Apples.

Commissioners representing the states of Wisconsin, Minnesota, Iowa and South Dakota have been in session at LaCrosse, Wis., for the purpose of revising the nomenclature of the list of standard Russian apples, of which nearly one thousand so-called varieties have been introduced in this territory.

Wisconsin was represented on this commission by Prof. E. S. Goff, of the University of Wisconsin, an authority upon horticulture; A. J. Philips, secretary of the State Horticultural Society; and A. G. Tuttle, of Baraboo, whose eighty-three years sit lightly upon his shoulders.

Minnesota's members were Clarence Wedge, of Albert Lea, the president of the commission, who has done more for pomology on the prairie land of southern Minnesota than any other man; Prof. S. B. Green, of the University of Minnesota, and J. S. Harris, of La Crescent, another veteran fruit grower and gardener who has been doing missionary work for apples for more than forty years.

Iowa's members were J. Sexton, of the agricultural college at Ames, who has been for the past twenty-three years the chief assistant of Prof. J. L. Budd, the highest authority on Russian fruits; C. G. Patten, of Charles City, and J. B. Mitchell, of Cresco.

South Dakota was represented by Prof. N. E. Hansen, of the agricultural college at Brookings, the distinguised young horticultural scientist who has been twice to Russia to study the hardy apple in its habitat.

The commission examined hundreds of specimen fruits and photographs and found the names sadly confused. After careful consideration the entire list was divided into fourteen groups, the Hibernal, Duchess, Longfield, Charlamoff, Repka, Christmas, Antonovka, Yellow Sweet, Cross, Romna, Transparent, Anis and Golden White.

The work of the commission will be accepted as authority in the four states represented and its findings will be of considerable importance to nurserymen. As a preamble to their report the gentlemen stated that "The varieties here grouped as members of the same family, while in a few cases differing somewhat in characteristics of tree, are so nearly identical in fruit that for exhibition and commercial purposes they are practically the same and should be so considered."

Buffalo.

UNCHANGED TRADE CONDITIONS.—THAT POSTPONED PICNIC.—PERSONAL JOTTINGS IN THE BISON CITY.

Trade is still on the quiet side. Asters are plentiful now, but the quality has deteriorated owing to dry weather. Gladioli are in market by the thousands and carnations are still in fair supply but not very large. Kasting is receiving some very good Beauties, Kaiserins and Meteors.

Postponed affairs are never as good as the first start, and such was the case with our annual outing. Signs were placed in all stores and greenhouses announcing that we would close at noon Wednesday, August 31, and when we got to the boat we were confronted by about fifty men and the same number of ladies. The ones most expected at the gathering were quite conspicuous by their absence. One of the largest establishments, employing about thirty people, was represented by one $2 errand boy. It certainly is not right to have these outings if men of affairs do not care to go or help them along, and it looks very much as if the same activity will be shown in our chrysanthemum show.

Wm. Scott begins on October 1, under the management of two of our florist bowlers, to practice for that match next August in Detroit. When one challenges any one of the same size, weight and age they want to be in training, so he starts now.

Prof. Cowell attended the convention in Boston of the American Association for the Advancement of Science.

S. A. Anderson returned last week from Stave Island, where he had been for two weeks with the Buffalo Canoe Club, and where, I am told, he also practiced palmistry.

Wm. Benchi visited Rochester and other eastern cities last week.

Palmer & Son propose to be right in it as they are having a new front put in their store which promises to be the most attractive in town.

L. Neubeck, who was with Scott for so many years, is now nicely located at Main and High streets. The firm is Neubeck & Meyers.

W. A. Adams was away for a few days last week to Wilson, N. Y., on Lake Ontario for a camping out time.

J. Wiese, of Washington Market, drove up to Kasting's last week with a wagon that was the admiration and envy of all the boys.

W. F. Kasting returned recently looking well and filled with Colorado air.

Charles Porter, head man for S. A. Anderson, is in New York. Wm. Grever, with W. A. Adams, is also on his vacation, as is Arthur Beyer, the artist at Palmer's.

J. M. Gasser, of Cleveland, was here this week.

The soulful Mott is again with us. W.

STRATFORD, ONT.—Alfred Neal has purchased the greenhouses of R. Clarke. Mr. Neal is a thorough, up-to-date florist, and for many years has had charge of the greenhouses of Angus Rose at Woodstock, Ont.

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SURPLUS STOCK

500 3½-inch CHINESE PRIMROSES..... .05
100 3-inch SMILAX..... .02
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Cash with orders.

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ACALYPHA SANDERI

The most Extraordinary Flowering Plant of the Century.

Just Arrived!

We have just received a fine lot of fresh seeds of

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PLUMOSUS NANUS, 2½-inch pots.....$7.00 per 100
ROSES, Bride and Bridesmaid, 3½-in. pots, $5 per 100
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Specimens for 8-inch pots, $6 per 12.

A. BLANC & CO.
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DRACÆNA INDIVISA.

A splendid stock of strong field-grown plants, @ $10.00 per 100.

MARIE LOUISE VIOLETS.

A few more fine young plants, @ $20.00 per 1000.

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Strong, 3-inch, $2.50 per 100.

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Orchids!



IMPORTED and Established Stock of A-1 quality always on hand. Also a complete line of best **Cherrywood Baskets, Fresh Moss and Peat, etc.**

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Cycas Revoluta Stems

Popular sizes, 3 to 6 lbs each.....10 cts. per lb.

Pteris Tremula Ferns

Strong plants, ready to shift to 4 and 5-inch, from 2¼-inch pots.

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Fine 2½-inch plants, $2 50 per 100.

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FERNS FERNS

100,000 Commercial Ferns in the best varieties out of 2-in. pots, grown in cool houses and well-aired. No better stock offered at double the price; $2.50 per 100, $20.00 per 1000, $50.00 for 3000. Also a fine lot of the LEADING CARNATIONS for sale, $3.00 to $5.00 per 100.

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The Largest Stock of PLANTS IN THE WEST

GEO Wittbold 1708 N. HALSTED ST CHICAGO

EXTRA HEAVY Clean Stock!

Kentia Belmoreana

6-in., 5 to 7 leaves.....$15 to $24 per dozen.
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6-in., 5 to 6 leaves.....$12 to $18 per dozen.
5-in., 4 to 5 leaves..... 9 to 12 "

FIELD GROWN CARNATIONS...

A fine lot will be ready for Sept. delivery.

THE COTTAGE GARDENS
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PALM Seed.

FRESH ON HAND

All kinds of **PHOENIX SEEDS.**

A new shipment of **Kentia Belmoreana and Forsteriana** will arrive in a few weeks....

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REX BEGONIA

		Per 100
34 Named Varieties,	2-inch pots.	$8.00
34 " "	Rooted Cuttings.	4.00
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" "	2-inch pots.	4.00

Write for prices on other stock. Terms Cash or C. O. D.

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St. Paul.

MARKET CONDITIONS.—CROP REPORTS.—THE OMAHA PILGRIMS.—BUILDING OPERATIONS.—VISITORS.

Trade is slowly improving and stock is of better quality, but choice flowers are notably scarce. The new crop of roses is now coming in, while summer plants are still producing abundantly. Carnations are scarce, especially whites. Gladioli are meeting with fair sales, as are sweet peas and other outside stock. Asters are almost a complete failure and many expressions of "what might have been" are heard on every hand.

Chrysanthemums are looking very fine and a large cut is promised. Carnations and violets are being benched now, having made an exceptionally fine growth this season.

The Omaha pilgrims have all returned, much recuperated mentally and physically and enthusiastic in their praises of Omaha, Brother Wilcox, the exposition and everything in general. The Minnesotans attending the convention were as follows: L. L. May, S. D. Dysinger, wife and son, Aug. S. Swanson, Christ Hansen, A. Lauritsen, James Souden and Alex. Martin, of St. Paul; E. Nagel, Jacob Hartman, Fred Busch, R Wessling, O. Munson, C. Swahn and R. Will, of Minneapolis; Frank Berry, of Stillwater; R. Windmiller, of Mankato; John Wunder, of Winona; C. J. Brooks, of Owatonna; Mrs. A. H. Bunde and Miss Bunde, Miss Lemke and Fred Nusbaumer, superintendent of parks, St. Paul.

Carlsen & Lauritsen are building a new rose house 18x30 feet. This will give them a total of 12,000 feet of glass and one of the neatest places in the city. Their stock of roses for winter blooming is exceptionally fine.

L. L. May & Co. are building a fern house 6x100 feet in size. They have recently cleaned and repainted their retail city conservatory.

Callers since last report: C. H. Joosten, of New York; W. F. Dreer, of Philadelphia; E. E. Uslar, of Niles, Cal.; W. H. Elliott, of Brighton, Mass. FELIX.

ROSES

100 AMERICAN BEAUTY, 3½-in.....$5.00 per 100
BRIDESMAIDS, 3½-in..... 3.50 per 100
METEORS, 3½-in..... 3.50 per 100
Very choice; grown for our own use. May be returned at our expense if not satisfactory.

BRANT & NOE—Gentlemen: DALLAS, TEXAS.
We are greatly pleased with rose plants received.
Yours, etc., TEXAS SEED & FLORAL CO.

BRANT & NOE, - Forest Glen, Ill.

AMERICAN BEAUTY
Fine young plants, healthy and strong. 3-inch pots, $10.00 per 100; $90.00 per 1000.

EDWIN LONSDALE,
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Cash with order. PHILADELPHIA, PA.
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5000 FIELD-GROWN
Carnation Plants.

McCOWAN, SCOTT, PORTIA.
DAYBREAK.

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Field Grown CARNATIONS
Daybreak, Eldorado and Anna Webb, @ $6.00 per 100.
Portia, McGowan and Scott, @ $4.00 per 100.
Free from rust. Cash with order.
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....FIRST QUALITY FORCING ROSES....
Fully equal to those sent out the last six years, first class and perfectly healthy in every respect.
Only selected growth from flowering shoots used in propagating.

LA FRANCE, METEOR, PERLE, BELLE SIEBRECHT, KAISERIN, MME. HOSTE, 3-inch pots, $6.00 per 100.
SUNSET, NIPHETOS, PRESIDENT CARNOT, BON SILENE, BRIDE, 4-inch pots, $8.00 per 1000.

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AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphetos, Kaiserin, 3 and 4-inch.
Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted.
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ARGYLE FIELD GROWN
$10 and $12 per 100.
$100 per 1000.
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CARNATIONS
Strong, field-grown plants, and FREE from rust.

250 Armazindy
3000 McGowan
3000 Alaska
1200 Wm Scott
200 Helen Keller
} $4.00 per 100.

75 Hector
100 McBurney
400 Pingree
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500 Jubilee.....$8.00 per 100.

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SEE THESE PRICES!
Splendid 3-in stock, worth nearly twice the money. All in fine growth.

	Per 100
BRIDES AND MAIDS	$3.50
METEORS	3.00
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BEAUTIES	4.50

This stock will certainly please and make you money.
W. H. GULLETT & SONS, Rose Growers, Lincoln, Ill.

ROSES! ROSES!
Brides, Meteors and Maids, 3-inch, $4.00 per 100; $35.00 per 1000. 2-inch, strong, $2.50 per 100; $20.00 per 1000.
Perles, Beauties 3-in., $5.00 per 100; $45 per 1000.
50 at 100 and 500 at 1000 rates. Cash with order.
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ROSES. ROSES.
No finer grown. Big bushy plants, full of flowering shoots, out of 3 and 3½-inch pots, at $3.00 per 100. Meteors, Brides, Bridesmaids, Perles and Beauties. This stock is cheap at twice the price, but must be sold at once to make room.
SMILAX PLANTS, 2-inch pots, full of roots and covered with plant—no finer to be had—at the lowest price ever quoted 75c per 100; $5 00 per 1000.
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SOUTH SIDE FLORAL CO., Springfield, Ill.

ROSE PLANTS Per 100
5000 AMERICAN BEAUTIES, 3-inch, $4.00
700 BRIDESMAIDS..... 3-inch, 3.00
1400 METEORS..... 2½-in., 2.00
Fine, healthy stock; good size.
FIRST COME, FIRST SERVED.
A. G. PRINCE & CO.,
88 and 90 Wabash Ave., CHICAGO.

Large, Healthy, Field-Grown
CARNATIONS
of the following varieties:
McGOWAN, FELLOW'S RED, SCOTT, ROSE QUEEN, BRIDESMAID and ELDORADO.
$5.00 per 100; $40.00 per 1000.

Fine assortment of extra strong **FERNS,** $4.00 per 100.
Fine large **SMILAX PLANTS,** from 3½-in. pots, $3.00 per 100; $25.00 per 1000.
PRIMULA OBCONICA, from 3½-inch pots, at $3.00 per 100.
Large field-grown **DRACAENAS,** 3 years old, $10.00 per 100.
SWAINSONIA PLANTS, from 3½-inch pots, at $6.00 per 100.

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CARNATIONS FIELD-GROWN
Ready September 1st and later.

2000 Lizzie McGowan	500 Silver Spray
500 Ivory	1000 Wm. Scott
500 Morello	300 Emily Pierson
500 Daybreak	200 Goldfinch

If you want any field-grown plants this fall write me before you buy and get prices on this lot. Address
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STRONG Field-Grown **CARNATIONS**

	Per 100		Per 100
Harrison's White	$4 00	Silver Spray	$4 00
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Tidal Wave	4 00	Mayor Pingree	6 00
Portia	4 00	Jubilee	6 00

California Violets, $4.00 per 100.
Cash with order. **GEO. SOUSTER, Elgin, Ill.**

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Ready now. Standard varieties.
Write for prices.
FIELD-GROWN MARIE LOUISE VIOLETS, $4 per 100.
A1 stock, from pots, $3 per 100; $25 per 1000.
A few hundred BRIDES and MAIDS at a bargain, from 3-inch pots.
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FINE FIELD-GROWN **CARNATIONS.**

660 Daybreak	$5.00 per 100
325 Goldfinch	5.00 per 100
850 Portia	4.00 per 100
260 Wm. Scott	4.00 per 100
1450 McGowan	4 00 per 100
400 Her Majesty, pink	4 00 per 100

ROSES—La France, $3.00. Meteor, $2.50.
THE NATIONAL PLANT CO., Dayton, O.

GOLDEN GATE **Rose Plants.**
SELECTED STOCK.
3 and 4-inch pots, $25.00 per hundred.
For Cash or in Exchange.
American Rose Co., Washington, D. C.

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We have a fine lot of extra strong plants in the field, including

FLORA HILL, VICTOR, LILY DEAN, MAYOR PINGREE, TRIUMPH, ARMAZINDY and others. Also Jubilee in 4-in. pots.

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Fine Field-Grown Plants.

	100	1000
WM. SCOTT	$3.00	$25.00
NANCY HANKS	3.00	25.00
EMMA WOCHER	3.00	25.00
BRIDESMAID	3.00	25.00
TIOAL WAVE	3.00	25.00
PORTIA	3.00	25.00
LIZZIE McGOWAN	3.00	25.00
ALASKA	3.00	25.00
KOHINOOR	3.00	25.00
NIVEA	3.00	25.00

Morello, Mayor Pingree, Flora Hill, $6.00 per 100; $50.00 per 1000.

No order for less than 100 accepted.

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CARNATIONS

NOW READY

EXTRA FINE FIELD-GROWN PLANTS.

	Per 100
Mrs. S. A. Northway	$10.00
Alba Superba	12.00
Evelina	12.00
Cold Nugget	12.00
White Cloud	12.00
Flora Hill	6.00
Jubilee	8.00
Lizzie McCowan	4.00
William Scott	4.00
Daybreak	7.00
Victor	8.00
Tidal Wave	6.00
Morello	6.00

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Carnation Plants

STOCK READY SEPT. 1st.

A good season has put our field-grown stock for Fall planting in excellent condition; clean, healthy and stroog. The condition of our ground is such to insure the lifting of a plant with little or no loss of roots. Send for Price List.

F. Dorner & Sons Co.

LA FAYETTE, IND.

CARNATIONS, McGowan, etc. GERANIUMS, Nutt and Favorite. VINCA Major Variegata. All strong field-grown plants in perfect health. 75c per dozen, $5 per 100. CANNAS, varieties and prices on application.

INSALL & LEADBETTER, Moorestown, N. J.

Tell them where you saw the ad.

50,000 CARNATIONS

READY FOR SHIPMENT NOW

They are strong healthy plants, field-grown, and have been carefully disbudded all summer; they are now setting their first buds. This stock should not be confounded with stock that has flowered most of the summer, and is now offered at low prices—such stock is dear at any price.

WE OFFER THE FOLLOWING VARIETIES

Price, except where noted, $5.00 per 100; $40.00 per 1000.

....WHITE....

Uncle John. Storm King.
Alaska. Ivory.
Flora Hill, $7.00 per 100.

Daybreak, light pink.
W. Scott, standard pink.
Rose Queen, bright rose color.
Nancy Hanks, light pink.
Della Fox, peach pink.
Bridesmaid, fine pink.
Jubilee, scarlet, $7.00 per 100.
Triumph, large pink, $6.00 per 100.
C. A. Dana, new pink, $6.00 per 100.
Albertini, large light pink, $5.00 per 100.

Write for Special Prices on Large Quantities.....

TERMS: Cash or satisfactory references. Address

Forest City Greenhouses. **H. W. BUCKBEE, Rockford, Ill.**

4 Acres Field-Grown Carnation Plants, 91,000.

Our Carnations are grown with the greatest care, free from disease and packed lightly by our improved system of packing, by which we can send them to all parts of the United States and Canada in perfect condition.

CAPTAIN KINC	JOE JEFFERSON	MAYOR PINCREE	C. A. DANA
	$2.00 per dozen.	$10.00 per 100.	
JUBILEE	BUTTERCUP	CRIMSON SPORT	HELEN KELLER
	$1.50 per dozen.	$8.00 per 100.	
BRIDESMAID	METEOR	MME. DIAZ ALBERTINI	CHESTER PRIDE
IVORY	ARMARZINDY	DAYBREAK	STORM KINC
	$1.25 per dozen.	$6.00 per 100.	
SWEETBRIER	L. L. LAMBORN	LIZZIE McCOWAN	WM. SCOTT
PORTIA	SILVER SPRAY	PURITAN	MRS. FISHER
	$1.00 per dozen.	$5.00 per 100.	

Send for price list..... **J. L. DILLON, Bloomsburg, Pa.**

EXTRA FINE CARNATIONS

WHY YOU SHOULD BUY YOUR PLANTS OF US:

1st. Because your order will be filled immediately.
2nd. Because our plants make a great mass of fibrous roots which enable them to stand long shipment well and to start at once when planted.
3rd. Because our plants are healthy and we grow the best varieties.

Send for prices..... GEO. HANCOCK & SON, GRAND HAVEN, MICH.

CARNATIONS

PINGREE
ARMAZINDY
AND TRIUMPH

Field-grown. Ready now. Write for prices.

GEO. A. KUHL, Pekin, Ill.

CARNATIONS

3000 Extra Fine Field-Grown Plants of DAYBREAK.

Also 1000 McGOWAN, 600 SCOTT, and 500 METEOR. Write for prices.

W. A. WETTLIN, Hornellsville, N. Y.

FIELD-GROWN CARNATIONS

propagated in January and are A-1. 800 Daybreak, $5.00 per 100. 150 Rose Queen, $5.00 per 100. Cash with order, please..

M. J. PIERCE, - Adrian, Mich.

CARNATIONS

H. WEBER & SONS,

Oakland, - Md.

Burnt Turf.

ED. AM. FLORIST:—In your issue of July 2, page 1435, "C. B. W." has an article in which he speaks of potting soil and advises the use of burnt turf. We would like very much to hear from one of experience, the best method of preparing this.

G. E.

I am familiar with only one method. Our soil was made in the field where small timber land was being cleared, the roots, small stumps and chips being arranged to dry in piles about four feet high, and the turf thrown over them just as it was dug with a spade, making a mound about eight feet high. The wood underneath was set on fire and would burn for several days. This, of course, made considerable charcoal, but in small pieces. One decided improvement over other soils was the freedom from seeds of weeds. The burning is best done in the field. I think it would pay some one to devote their time on some of the waste land, of which there is so much, and sell the soil to florists in car lots, as it is not practicable for florists in large cities to make this preparation at home.

C. B. W.

Nashua, N. H.

It is conceded on all sides that it is hot, exceedingly so, but autumn is coming, and with the advent of the change in season there will be a corresponding change in business. The outlook is decidedly encouraging.

Geo. E. Buxton reports the best summer trade he has had in years. His field carnations, standards as well as new varieties, look at their best and what is chiefly notable about them is their freedom from rust. Mr. Buxton, by the by, is experimenting upon a hundred and fifty seedlings of his own and from all appearances quite a few will prove worthy of cultivation.

At no time, perhaps, not within my recollection at least, have florists been taxed for new ideas to the extent that they are to-day. Something novel in the way of design work, something suitable for a fallen hero brought home for burial, seems to be the popular demand. To the credit of the florists be it said that they are generally equal to the occasion and will furnish knapsacks, guns, flags and battleships at a moment's notice. The floral designs furnished by August Gaedeke & Co. for the funeral of Private E. H. Gaffney were the first of the kind and the largest pieces ever made in Nashua. Two of these are especially noteworthy. A base of white and purple asters, on the front a wreath and on the sides a crescent and an anchor, supported an immense tablet four by five feet. The tablet was of white asters and Meteor roses, and on it rested a knapsack, blanket roll, gun and cap. The gun was of purple and pink asters, the knapsack of ivy leaves, blanket roll of purple zinnias and the cap of purple and white asters. On the sides of the knapsack were the letters "N. H. V., Co. I." Suspended above the tablets were two cycas leaves and between these a dove holding two ribbons, white and blue. The second design represented the American flag, mounted on a stand three and one-half feet high and three feet square. The stripes were made of red carnations and white asters, the stars of blue asters, the base of tuberoses, lilies, carnations and ivy. A more appropriate inscription than "He died for his flag" could not possibly have been devised by his comrades.

HOMO.

GUARANTEED

Fresh Seed From Australia.....

	Per 100	Per 1000
Kentia Belmoreana or Kentia Forsteriana, delivery included	$.64	$ 4 00
Samples on application to intending purchasers		
Lil. Harrisii, 5x7	4.00	37.00
Freesias, Cal. grown, 3/4-1/2, delivered	.50	3 25
" Pure white flowers, guaranteed	.65	5 00
Calla Æthiopica, 3x5 in	4 50	40.00
" " 4x6 in	6 00	55 00
" " 5x7 in	8 00	75 00

Cyclamen Giganteum Bulbs 1½-3 in. diam., doz., $1 00. In pure white, rose, crimson white with red eye, rose with dark eye. Select seed from Prize Flowers of above sorts separate or mixed. Clearance price, 100 seeds, 75c; 1000 seeds, $5 00.

Choicest PANSY SEED from Germany and Scotland Giant Flowers, oz., $3 50; ½ oz., $2 00; 1000 seeds, 25 cts. 5 per cent. for cash on above prices. Address

H. H. BERGER & CO.,
220 Broadway, St. Paul's Bldg., - NEW YORK.
(Established 1878)

GREATEST BARGAIN IN PLANTS

Because all stock offered is in A-1 condition.

ROSES—Maids and Brides, 4-inch, $7.50 per 100. Meteor, Maids, Brides, Perles, Niphetos, 3-inch, $5.00 per 100.

CARNATIONS—Field-grown, ready now. Daybreak, Scott, McGowan, Jubilee, Rose Queen, Helen Keller, $7.00 per 100, or $65.00 per 1000.

VIOLETS—Marie Louise, field-grown, ready now, $6.00 per 100, or $55.00 per 1000.

RUBBER PLANTS—Ficus Elastica, 5-inch at $5.00 per doz.

BEGONIA REX—4-inch pots, $20.00 per 100.

WM. F. KASTING
BUFFALO, N. Y.

JOSEPH HEACOCK
WYNCOTE, PHILA., PA.
GROWER OF
ARECA LUTESCENS,
COCOS WEDDELIANA,
KENTIA BELMOREANA,
LATANIA BORBONICA.

ASTILBE CHINENSIS (Spiraea) First Class
Certificate Mass. Hort. Society.....
Three sizes, fine stock, $20, $15, $10 per 100.
We recommend September and October planting for..... **HARDY HERBACEOUS PERENNIALS** IN VARIETY.
Price list and descriptive catalogue on application.
REA BROTHERS, Norwood, Mass.

ARAUCARIA EXCELSA
Strong plants, dark green foliage.
CYRTOMIUM FALCATUM, 7 and 8-inch pots.
ASPARAGUS SPRENGERII, 3-in. pots, strong plants.
ASPARAGUS PLUMOSUS, 3-inch pots.
Send for quantity and price list.
T. E. EDWARDS & BRO., 478 Irving Ave., Bridgeton, N. J.

SURPLUS STOCK

100	Chinese Primroses, asst'd, 3½-in.	$3 00
50	" " " 4-in.	5.00
100	Dracæna Indivisa, 2-in.	2.50
100	" " 3-in.	4.00
50	Grevillea Robusta, 2-in.	2.50
100	" " 3-in.	4.00
300	Ferns, Pteris Serrulata Cristata, 2-in.	3.00

Above are fine thrifty stock and ready for a shift. Cash with order.
Danville, Ky. **S. M. HARBISON.**

SPECIALTIES IN BEST VARIETIES.
ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
Prices low. Send for list. **VIOLETS.**
WOOD BROTHERS, FISHKILL, N. Y.

Successful growers become successful sellers when they advertise in the American Florist.

BULBS

	Per 100	Per 1000
Lilium Harrisii, 5 to 7-in	$4.00	$35.00
White Roman Hyacinths, 12 to 15-in.	2.00	17.50
" " 11 to 12-in.	1.50	13.00
L. Longiflorum, Japan, 6 to 8	2.50	22.00
" " 7 to 9	3.50	30.00
Freesia Refracta Alba, 1st size		3.50
" " " extra selected		5.50

Net cash with order.

HULSEBOSCH BROS.
ENGLEWOOD, N. J.

GREETING!

I take this method of thanking the Florists of the United States and Canada for the many hundred orders for seeds and plants received during the season. My aim is to please every customer.

I still have thousands of extra strong **CHINESE PRIMROSE PLANTS** at $2.50 per 100 for the finest named colors of the single and double, in assortment. Extras added to help pay expressage.....
JOHN F. RUPP, Shiremanstown, Pa.

Dutch Bulbs
HYACINTHS, TULIPS, CROCUS, ETC.
RUDOLPH VAN TIL & CO.,
Hillegom, Holland.
American Representative
L. C. BOBBINK, Rutherford, N. J.
ASK FOR CATALOGUE.

BULBS For FLORISTS., For SEEDSMEN.
VAN ZANTEN BROTHERS,
HILLEGOM, - HOLLAND.

Geranium "MARS"
STOCK PLANTS, FIELD GROWN, READY NOW....
$1.50, $2.25, $3.00 per doz.; $15.00 per 100. Cash with order, please.
HENRY EICHHOLZ, Waynesboro, Pa.

Rooted Cuttings of ACERATUM Princess Pauline, the most distinct and novel variety, of dwarf, compact habit; color sky-blue. Most desirable plant for retail trade, per 100 $2 00.
CYCLAMEN PERSICUM, in four colors, fine plants, 4-inch, per 100 $12 50.
ROSES—Souv. de Woutton and Bougere, 4-inch, per 100 $5 00.
Field-Grown CARNATIONS—Jubilee, Armazindy, Mayor Pingree, per 100 $7.00. Alaska, McGowan, Kohinoor, Daybreak, Rose Queen, Scott, Dorner and W. D. Sloane, per 100 $5 00.
Cash with order. **CHRIST. WINTERICH, Defiance, O.**

ASPIDISTRA Lurida fol. var. just now in good condition without leaves, good roots with sprouts, $6 per 100; sample, 90c per doz. postpaid. **Canna "Florida"** for trial 10 cents.
Asparagus Sprengerii Seed.... { 100, $1.00 / 1000, 8.00
Fresh from the vines.....
Pampas Grove Nurseries Greenland P. O., Florida.

FOR SALE.
100,000 Strong LATANIA Seedlings, very well rooted, $25 per 1000
30,000 FERNS for dishes, very large, 2½-inch, $3 per 100, $25 per 1000
4,000 SWORD FERNS, 4-in. $9, 4½-in. $10 per 100.
2,000 RUBBER TREES, in excellent condition, 5½-in 50c; 6 in. 70c. You never saw better Ficus.
60,000 PALMS in variety. All sizes. (Medal awarded on Palms at World's Fair, 1893).
10,000 No. 1 'MUMS, ready for this fall.
Try us on **No. 1 CUT FLOWERS.** 26 greenhouses.
ALBERT FUCHS, 2059-73 N. Halsted St. CHICAGO.



NEW CROP PANSY!

VAUGHAN'S "INTERNATIONAL"

Received the only reward for Mixed Pansies at the World's Fair. It is today better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. **Price, per oz., $10; 1-2 oz., $5; 1-8 oz., $1.50; trade pkt., 50 cts. (less 10 per cent for cash.)**

VAUGHAN'S "GIANT MIXTURE"

This mixture is specially made up by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had in any other way. If your trade demands large flowers there is no better mixture. **Price, per oz., $4.00; 1-4 oz., $1.25, 1-8 oz., 70 cts., large trade pkt., 50 cts.**

GIANT TRIMARDEAU, Mixed, oz., $1.00; ¼-oz., 30c; pkt., 10c.
"CHICAGO PARKS BEDDING" MIXTURE, oz., $1.00; ¼ oz., 30c; pkt., 10c.
Separate Colors—For price of these see Special Pansy Seed Circular, sent on application.

VAUGHAN'S SEED STORE,
14 BARCLAY ST., NEW YORK. 84-86 RANDOLPH ST., CHICAGO.

PANSY SEED Large Flowering.

Do you want to grow the finest Pansies, if so, buy the JENNINGS STRAIN. Always reliable None better. Very finest mixed, $1 00 per pkt. of 2500 seeds; $6 00 per ounce. White, yellow, black, blue, red, pink and lavender in separate colors, $1.00 per pkt. The above all grown from very finest stock. Cash with order.

E. B. JENNINGS, L. B. 254, **Southport, Conn.**
Grower of the Finest Pansies.

John! THE PANSY MAN

THAT'S WHAT THEY CALL ME.

Fresh seed now ready J. B.'s Challenge is all that the word implies. TRY IT! Good percentage of light colors. Large trade pkt., $1.00 cash.

Plants Ready Sept. 15th.

JOHN BEIMFORD, WILTON JUNCTION, IOWA.

PANSY SEED. STRICTLY FRESH.

French and German crops, oz $7.50; ½ oz. $3 75; ¼ oz. $2.00; pkt. $1.00.

BEDDING PANSIES, per oz. $4.00; pkt. 50c.

J. L. SCHILLER,
404 East 34th Street NEW YORK.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at $1.00 each.

M. B. FAXON,
Lock Box 1528. BOSTON, MASS.
Correspondence solicited.

Pansies Worth Raising.

EXCELLENT SEED.

3-16 oz. $1.00; 1 oz. $4.00; up in 8 to 10 days, if properly treated.

FINE STOCKY PLANTS, $4 00 per 1000. f. o. b. express. CASH WITH ORDER.

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

VIOLETS.

Large clumps Princesse de Galles and California Violets from field.

PRINCESSE DE GALLES, $5.00 per 100; 500 $22.50; 1000 $40.00.
CALIFORNIA, $3.00 per 100; $25.00 per 1000.
Large Runners of Princesse de Galles, $4.00 per 1000. California, $3.00 per 1000.
Strictly cash with order and quantity mentioned.

SEA CLIFF NURSERY,
FD. BOULON, Prop. Sea Cliff, L. I., N. Y.

CHOICE VIOLET STOCK

Of Marie Louise variety. Only clean and healthy; would exchange for Carnations. Write I. B. COLES, Woodstown, N. J.

HERR'S PANSIES. BUY THE BEST

SEED at $1.50 per ounce. A liberal packet for $1.00.
PLANTS at 75 cts. per 100, or $4.00 per 1000; 250 for $1.00, by express.

ALBERT M. HERR, LANCASTER, PA.

SEED! PANSIES SEED!

Roemer's Superb Prize Pansies, improved strain, new crop, ready now This new mixture is saved from the very finest selected plants from all leading novelties of art colors, without doubt the finest strain in the market to-day. Mixed, per pkt of 3000 seeds, $1.00; ¼ oz., $1 50; ½ oz., $2 75; 1 oz., $5.00. White, yellow, black and blue, in separate colors, $1.00 per pkt. of 300u seeds

CASH WITH ORDER.

PETER BROWN, - Lancaster, Pa.
Grower of Extra Fine Pansies.
Plants ready Sept. 15th.

Zirngiebel's Giant Pansies

PLANTS of the above strains at the same rates as the common varieties, viz: **$5 per 1000.** With our system of packing, plants can be sent safely any distance.

DENYS ZIRNGIEBEL, Needham, Mass.

CHINESE PRIMROSE

2½-inch pots, mixed colors, $2.00 per 100.

ASPARAGUS SPRENGERII. 3-inch pots $5 per 100.
FERNS for jardinieres, $3 per 100.

PANSY SEED, ½ oz. $2.00; oz. $3.50. Plants October 1st, $3.50 per 1000

JOS. H. CUNNINGHAM, Delaware, O.

...SEE THIS...

Violets! Carnations!

1000 Farquhar's, 3-inch pots, extra fine, clean stock at $4 00 per 100; $35.00 per 1000. Lizzie McGowan, 2nd size, $3 00 per 100. See Convention Number for other stock.

CARL HAGENBURGER, - West Mentor, O.
CASH, PLEASE.

4000 Marie Louise Violets

Field-grown, from $2 to $4 per 100, according to size. Will sell the whole lot for $60. Cash or satisfactory reference.....

HILLSDALE FLORAL CO.,
HILLSDALE, MICH.

Please mention the American Florist

New Pansy Seed.

	Trade pkt.	1 oz.
Mitting's giant flowering	50c	$4.00
English, finest mixed	25c	2.00
French, " "	25c	2.00
Bugnot, " "	50c	4.00
Boucharlat	35c	3.00
Odier	35c	3.00
Cassiers	35c	3.00
Trimardeau, mixed	35c	3.00
" Parisian, large strained	35c	4.00
Lord Beaconsfield	25c	2.00
Striata Grandiflora	30c	2.50
Candidissima	30c	2.50
Faust	25c	2.50
German, large mixed, ¼ oz. at 1 oz. rates.	30c	2.50

PANSY PLANTS.—Mitting's giant flowering in bud and bloom, 50 cents per 100; $5.00 per 1000.

CARNATION PLANTS.

Flora Hill, Mayor Pingree and C. A. Dana at $6.00 per 100; fine stock. Triumph and Armazindy at $5.00 per 100.

FLOWERING BEGONIAS in 10 varieties, 2¼-inch, $2.00.

THE MORRIS FLORAL CO.
Morris, Ill.



H. Wrede,

LUNEBURG, GERMANY.

PANSY SEED.

144 First Prizes, the highest awards World's Fair, and Hamburg, 1897.
1000 Seeds, finest mixed, 25c.
1 oz. " " $3.75

Price List on application. Cash with order.

LOOK AT THIS....

3000 fine rooted runners of Princesse de Galles, 50 cts. per 100.

2500 fine clumps of Princesse de Galles, $3.00 per 100.

L. A. WALKER, LINDSAY, VA.

CINERARIA PLANTS.

Ready for 3-inch pots. The finest colored, large flowering dwarf varieties, mixed None better. Per 100, $2.50. Extras added to help pay express.

JOHN F. RUPP, Shiremanstown, Pa.

Rochester, N. Y.

The past week may be set down as a fairly busy one, considering the time of the year. Roses have been decidedly scarce owing to the increased demand. All other flowers were quite plentiful, but none too many were in the market for the last few days.

The heavy rains of last week have done some damage to asters, beating down the plants and splashing the flowers with mud; where the plants are mulched with straw or lawn clippings or where they are supported by stakes and string, the flowers are all right, but several of our largest growers suffered severely this time. Carnations in the field are not as strong as they should be, but with the moist and cool weather prevailing lately, they have started into more vigorous growth and it is hoped that nearly all will be in shape for housing. Violets are also rather small, owing to the drought, and here comes the advantage of growing this stock in pots, for all potted plants which I have seen this season are in finest condition and ready to go into the houses at any time.

The new seed farm of Jas. Vick's Sons, in the suburbs of Rochester, was visited last week by about forty members of the craft. The soil there is very light and sandy, and the exceptionally dry season was not very favorable for vigorous growth, still most of the stock has done fairly well and the proprietors will be able to reap a good harvest. A white annual sunflower deserves special mention among their novelties of the year. The flower is large, with a broad dark disk, contrasting well with the very pale straw colored petals; it is not a pure white, but looks so from a distance. Some roses, shrubs, vines, herbaceous and bulbous plants, for the mail trade principally, are also grown in quantity and, though the woody plants have not made very rampant growth, all stock is amply furnished with strong roots and is, therefore, preferable for mailing; large tops are not desirable for that purpose. After the inspection, the proprietors invited their guests to sit in the shade of an old apple orchard, where refreshments were waiting. J. B. K.

WATERVILLE, ME.—The fourth annual meeting of the Josselyn Botanical Society, which was held in this city, was attended by a large number of people and was in every way a most successful occasion. Many papers of interest were read and discussed and field excursions to a number of local points were enjoyed. Officers were elected as follows: President, Prof. A. L. Lane; secretary, M. L. Fernald; assistant secretary, Mrs. M. L. Stevens; treasurer, C. H. Knowlton. This association, which was formed in Portland four years ago has now a membership of about 250.

Standard Flower Pots.

PRICE LIST OF STANDARD POTS:—

2-in.	pots, per 1000	$3 00	6-in.	pots, per 1000		$22 00	
2½	" "	3 25	7	" "		35 00	
2¼	" "	3 50	8	" "		50 00	
2½	" "	4 00	9	" "		75 00	
3	" "	5 00	10	" per 100		10 00	
3½	" "	7 25	11	" "		15 00	
4	" "	9 00	12	" "		20 00	
5	" "	13 80	14	" "		40 00	
			16	" "		75 00	

Seed and bulb pans, same price as pots. Saucers to match pots, one-half price of pots. Ten per cent off for cash with order Send for price list of Lawn Vases, Hanging Vases and Cylinders. Address

HILFINGER BROS. POTTERY,
FORT EDWARD, N. Y.
OR.... AUGUST ROLKER & SONS, AGTS.,
52 DEY STREET, - NEW YORK CITY.

THE HARRISH DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent.

KRAFT'S PLANT TONIC

THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25 cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.

THIS INSECTICIDE IS NON-POISONOUS.

KRAFT PLANT TONIC CO., - ROCKFORD, ILL.

Standard Flower Pots...



OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

☞ Write us before placing your orders elsewhere.....

CAMBRIDGE TILE MFG. CO., Covington, Ky.

GALVANIZED STEEL WIRE PLANT STAKES

FROM $2 PER 1000 UPWARDS

H. F. LITTLEFIELD, WORCESTER, MASS.

Tobacco Dust

Just at present we have a surplus and room is scarce. We will fill orders to the trade as long as surplus stock lasts at $12.00 per ton; $7.00 per ½-ton; $1.00 per 100. Cash must accompany order.

THOMPSON'S SONS, Rio Vista, Va.



BRANCH WAREHOUSES:
Kearney and Westside Aves., Jersey City, N J.
Jackson Av. & Pearson St, Long Island City, N. Y.

Standard Pots

Made by

Good Railroad Facilities For shipping.
Special Attention Given to Mail Orders, and Special Sizes Made to Order.

KELLER BROS.
NORRISTOWN, PA.

Price Lists Furnished on Application.

THOSE RED POTS

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.

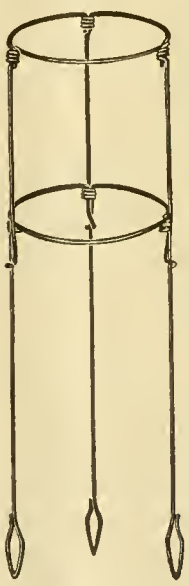
DETROIT FLOWER POT M'F'Y,
HARRY BALSLEY, Rep. DETROIT, MICH., 490 HOWARD ST.

Standard FLOWER Pots

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST,
Station M. N. E. WASHINGTON, D. C.

The MODEL Extension Carnation Support



QUEENS N. Y., Feb. 16, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97
MR THERON PARKER, Dear Sir:—Your wire stake is certainly a gem Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them. I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes

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The first annual outing of the Florists' and Gardeners' Club of Rhode Island was held at Rocky Point on August 10. A goodly number were in attendance, although the threatening weather kept many from participating. The committee in charge gave the members a faultless programme and nothing was left undone to make the excursion a most enjoyable one.

The regular August meeting of the club was held on the evening of August 26 and was unusually well attended. A change of meeting night to the second Thursday in each month was proposed and laid over for one month for final action. It was the unanimous opinion of those present that the club would be much benefited by the change, as the present meeting night brings the meetings too near many holidays. Mr. M. Sweeney, in a very humorous way, told some very queer experiences with the craftsmen with whom he had dealings, and the many pointers that he got that were so misleading. He wished to know the objects of the club and asked some pointed questions that set those present to guessing. The committee on essays promised a rich treat for the coming season.

A word of caution may not be amiss at this time. A young street "fakir" hailing from Bristol, R. I., by the name of John Small, has been "doing" quite a number of growers having a surplus stock. The "fakir" is bad enough anyway, but when he gets his stock on his boasted "doing" system he can afford to undersell any of us and make money at that.

Wm. Hoffman is spending a three-months' vacation in Europe for his health, visiting the home of his childhood.

Charles O'Gren, who for several years has been employed as head gardener for E. J. Johnston, has accepted a like position with the Norwood Floral Company.

E. J. Johnston has given up his store at 171 Weybosset street, but will continue the business at the old stand, greenhouse in Swan Point road. T. J. Johnston, the former manager, will continue the business at the store.

D. MacRorie, W. A. Manda's representative, has been in town a few days.

LITTLE RHODY.

Rockford, Ill.

J. J. Soper is building one new house 23x60 for cut flowers.

Carnations are very fine, healthy, free from rust and promise a fine crop this winter.

H. O. Hinkley has two houses already planted with Luxonne violets that are looking very fine.

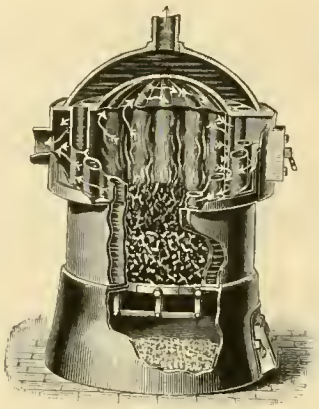
Business is improving, with every prospect of a good winter trade.

Premiums at the Winnebago County fair were awarded as follows: W. S. Hizer, first on general greenhouse collection; J. J. Soper, second. On floral work, J. J. Soper, first; Mrs. M. J. Cameron, second. On mantel decoration, W. S. Hizer, 1st; N. J. Kraft, second.

Frank Fernback is now with W. S. Hizer and Wm. Melcher with J. J. Soper.

TOLEDO, OHIO.—John Wilson, who for thirty-five years has conducted the greenhouses at 1523 Superior street, is dead. He was in his 79th year.

VAN WERT, O.—The Van Wert Greenhouses, of which W. H. Wagoner is proprietor and J. J. Bolton manager, are preparing for winter by setting a new equipment of boilers.



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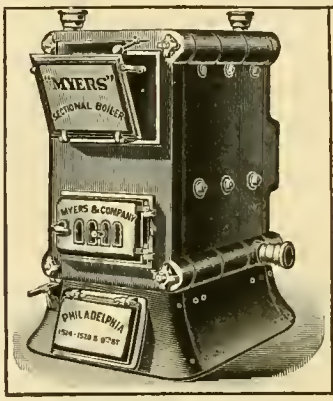
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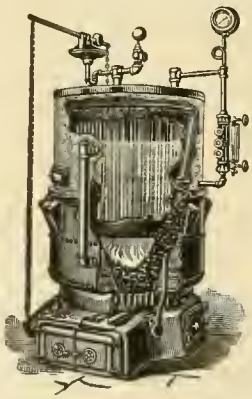
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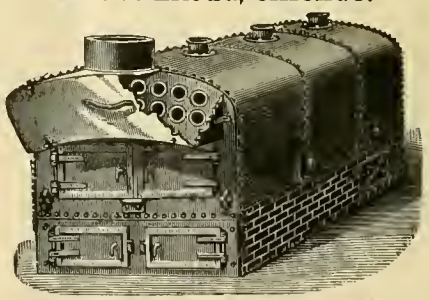
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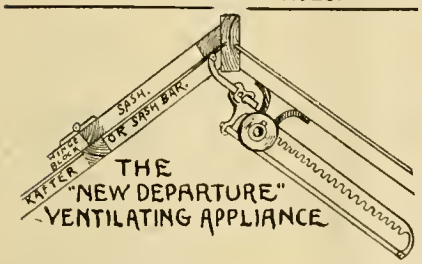
The summer exhibition of the Monmouth County Horticultural Society was held at the Casino on Rumson Road on August 31 and September 1. It was a success in every way. So well did the local horticulturists respond that some of the exhibits had to be cut short in order to make room for all. In the groups of decorative plants the exhibits were so close in quality that it was with difficulty that the judges decided as to the first premium. The ferns were the finest ever seen here. G. H. Hale was first on decorative plants, adiantums, crotons and caladiums, also on grapes, cut gladioli, perennials and annuals, and second on ferns, and dahlias. N. Butterbach was first on ferns, palms, dracænas, carnations, mignonette and asters, and second on crotons. H. A. Kettel was first on begonias and second on adiantums, decorative plants, palms, caladiums and roses. W. Kennedy was first on fuchsias, geraniums and dahlias and second on petunias, coleus and bouquet. O. W. McIntosh had the best vase of roses and B. Millican the best bouquet. The display of vegetables was superb. There were about one hundred exhibitors altogether. The visitors were mostly property owners and financially the enterprise turned out far ahead of last year. It is expected that the society will have its own hall next year.



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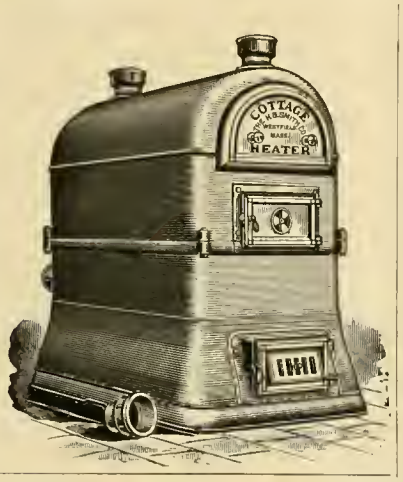
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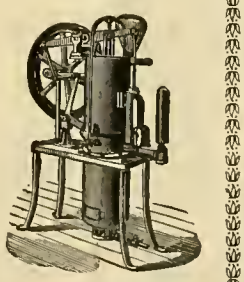
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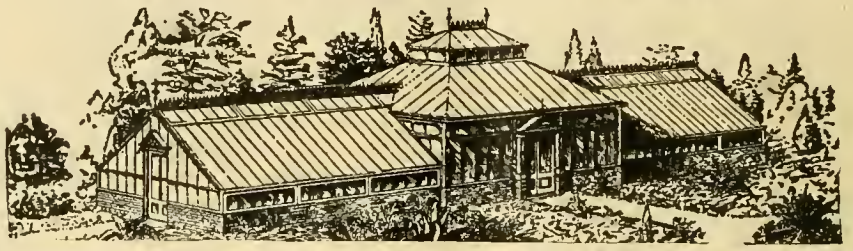
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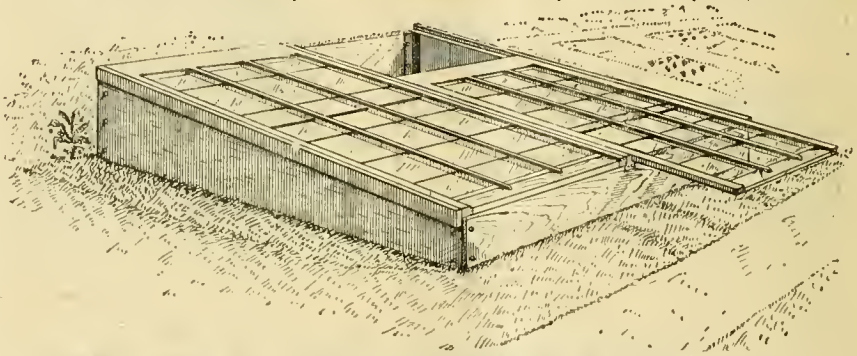
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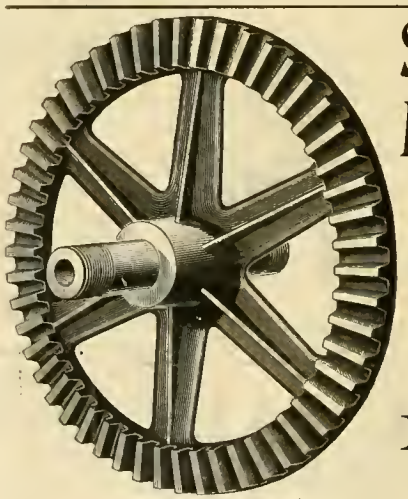
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THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899 ELMER D. SMITH, Adrian, Mich., secretary.

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CARNATION PROSPECTS

New York, Philadelphia and Boston.

Reports gathered from various sources indicate that eastern growers of carnations, mainly in the neighborhood of New York, Philadelphia and Boston, will plant for cut flower purposes for the coming season, colors in proportions as follows: Of pink about twenty-eight per cent, of white twenty-four per cent, of light pink twelve per cent, of yellow ten per cent, of novelties and seedlings eight per cent, of scarlet and variegated each five per cent, and of red and crimson each four per cent.

Eighty per cent of the pink varieties planted are Scott; Triumph leads in the remaining twenty per cent and the balance is made up of Mrs. Joost, Argyle, New York, Mrs. Jas. Dean and Oneita. Of the whites over one-half are McGowan and over one-third Flora Hill, the remainder including Alba Superba, Genesee, John Young, Evelina, Nivea and White Cloud. In light pink more than two-thirds are Dayhreak, one-fifth Victor and the balance Mrs. McBurnie. Two-thirds of the yellows are Eldorado and the balance is about equally divided between Mayor Pingree and Gold Nugget. In scarlets over one-half are Jubilee, nearly one-quarter Portia and the rest are mainly Bon Ton, Wellesley, Firefly and and Red Jacket. The leading variegated sort is Mrs. Geo. Bradt, which comprises about one-third of the planting, Lily Dean coming next and then Armazindy and Helen Keller. Reds are confined to Cartledge and Tidal Wave, the former leading, but crimsons are well divided in popularity, apparently, the list including Empress, Iago, Sebec, Maceo and Anna Webb.

It will be seen from this summary that the list of sorts regarded by the growers in question as desirable market varieties numbers about forty but that the great bulk of the planting consists of a very few varieties and these mainly well known favorites, while the varieties of recent introduction are planted sparingly and cautiously notwithstanding the high position given to many of the latter at exhibitions and by general verdict of acknowledged experts. The natural inference is that carnation growers are recognizing the fact that their specialty is, perhaps, more than any other class of plants cultivated for commercial purposes, particularly susceptible to any change of location or environment and no matter how good in its native locality, must be carefully and thoroughly tested under other conditions before being accepted as standard in places remote from its home. Another evidence of the practical tendency of the lessons which growers have been learning from the experience of the past few years is the large proportion of seedlings being grown, ten per cent of the total reports, which suggests that, in addition to the experimental value in growing and testing these seedlings, a good market is being found for the interesting and many hued product of their cultivation. In New York, especially, is it true that mixed unnamed seedlings with good form and stem often bring higher prices as cut flowers than do the best of the standard varieties with their high-sounding titles.

Toronto.

The season has been one of the dryest and warmest we have had to contend with in the history of the city. We have had but half an inch of rain during July, and little more than one inch in August, with the thermometer well up in the eighties and nineties most of the time. Strange to say, in a good many cases the plants have come through this ordeal in very good condition. They are not too large, but good, firm and healthy. Those growers who have attended to hoeing, having it done regularly and thoroughly, have reason to know it was the salvation of their plants, and those who took advantage of early planting have come through better than those who planted late, as the plants were established and received the benefit of a few showers we had early in the season.

We are not very enthusiastic about new varieties. Most of the growers are doing the standard kinds very well and think there is more money in them than in the new ones. Besides, it is expensive work trying new ones which often turn out unsatisfactorily. A few growers purchase the new varieties each season in order to keep in touch with the market, and a few more are enthusiastic in raising seedlings, with what amount of success we shall see later. The new varieties tried here are John Young, White Cloud, Argyle, Empress, Mrs. Joost, Bon Ton, Kathleen Pantland, Mrs. Northway, New York, Cerise Queen and Jack Frost. Those

lifted from the field are looking well. The best grower, however, has been Mrs. Joost, which shows remarkable vigor considering the season.

Among the standard varieties Flora Hill displays the most vigor. This variety has outgrown all the others, making clean, healthy plants of large size. Daybreak is much improved this season and will be grown largely. Scott, Albertini, McGowan, Eldorado, Hector and Portia will be the leading standard varieties. The prospects are for a large increase in space devoted to carnations this season, probably as much as twenty-five per cent. This flower is becoming more popular here each season. D.

Grand Haven, Mich.

Carnations are at their best this year. The weather has been particularly favorable during the summer, and as a result plants are strong and stocky with an abundance of fibrous roots. In walking through our field of new varieties one is impressed with the light green foliage and strong stocky growth of Evelina, which promises to become a leading white. In striking contrast is the rich blue foliage of Empress and Firefly. Empress is showing already the very large flower of richest crimson, carried on an immense stem, which attracted so much attention at the carnation meeting in Chicago, and in fact wherever it has been shown. Firefly is showing a vigorous growth, free from all disease, and the great abundance of flowers and buds proves it an extremely free and early scarlet.

As a group of promising new varieties we find Gold Nugget, the bright yellow, slightly marked with red; White Cloud, a thrifty white resembling Daybreak in habit; Psyche, white marked with scarlet, and from appearance will be remarkably free and early. Passing on we come to Argyle, a pleasing shade of carmine, looking vigorous, then to Bon Ton and Wellesley, two red varieties of much merit, and then to Painted Lady, which is a cherry pink and promises to be a good commercial variety. After these come twenty other new varieties all sent out this year and all possessing good points worthy of extended mention did space permit. Among them are Anna Shaw, Mrs. Frances Joost, Couch Shell, Mrs. Northway, Genesee, Tornado, Red Jacket, Happy Day and New York. Among the novelties of '97, and older varieties, we might mention a few which are particularly successful with us, viz., Flora Hill, a fine large white; Mrs. Geo. Bradt, large variegated; Victor, the deep pink Daybreak; Mayor Pingree, the large light yellow; Freedom, Scott, Jubilee, Meteor and Daybreak.

On the whole our plants never looked better in the field, and of the many varieties recently introduced some, no doubt, will prove valuable and help in the march of improvement. G. H.

Indianapolis.

In spite of the fact that prices as well as demand were most encouraging for the carnation grower in our vicinity, the glass given to this plant has not been increased; neither did our growers invest very heavily in novelties. For white Flora Hill seems to be most in favor. Jubilee is evidently considered the best scarlet, and in pink Daybreak and Albertini still take first place.

Most of our local growers prefer field grown carnations, and, as the weather has been most favorable this season, carnation prospects are very good. The few that planted their houses early with pot grown stock are already cutting a limited number of good flowers, for which they find ready sale. Some rust may be seen everywhere, but as the plants are healthy and vigorous it causes little alarm. One of M. Brandelin's houses is being injured by a dark brown beetle which is a stranger to our local experts. The insect appears in great numbers and feeds on the foliage and buds of the plant. H. J.

St. Louis.

Carnation prospects in the territory immediateiy surrounding this city can be classed as good. At the present writing seventy-five per cent of the plants intended for flowering the coming season are in the houses, many of them having been housed before the middle of August. The principal reason for getting them in so early is that grasshoppers have been busy in several places and seem to have a particular liking for Victor and Alaska, leaving the other varieties severely alone.

Where early planting has been accomplished, success has attended the effort and the plants are growing well. Reports in regard to size of plant compared with the same time last season places them in better shape, from ten to fifteen per cent larger on an average. Strong growing varieties like Scott are in fine shape, coming into the houses with from ten to fifteen heavy shoots. A tendency is noted to get down to the money making varieties, those that cut quantities of flowers. All the places have greatly reduced their lists of varieties, and where the lists have not been reduced much less space is given to varieties on trial.

The growing of Emma Wocher is on the increase, those who had it last season planting more extensively this year, although they say the wholesalers and store men do not fancy it. Whether the increased quantities will at all affect its selling price remains to be seen. The variety in the poorest shape seems to be Daybreak. The growers say the plants will work out of it, but at present they are rather unpromising. Ivory and Alaska seem to be the two whites that are pushing to the front, as they are mainly relied on at several places for white flowers, having pushed McGowan out. Where they are not grown, McGowan is still the favorite white. All indications point to a heavier cut than last season from the territory immediately contiguous to this city. R. F. T.

Kennett Square, Pa.

Plants generally in this section are looking well, although not as large as in some seasons. Most of the growers plant late, the latter part of September and early in October. Some few have already planted, however, and the stock housed is looking well. The older sorts are more generally grown. The bulk of the crop will be McGowan, Scott and Portia, with a very small percentage of fancy sorts. We have most of the newer sorts on trial here. They are housed and look as if they were going to take kindly to our soil, so far as plant growth is concerned. W. S.

La Fayette, Ind.

Carnations have made an exceptionally healthy and strong growth in the field this year. Of the new varieties White Cloud has made very strong and well branched plants, many showing forty to fifty well defined leads, as also do Mrs. S. A. Northway and Empress, while Evelina is not far behind. John Young, New York, Psyche, Painted Lady and Gold Nugget are all strong growers and are heavily branched. Bon Ton, Mrs. Jas. Dean, Argyle and Firefly show good growth, but not so heavily branched as the first mentioned varieties. The experience with new varieties in the field has been very satisfactory.

F. Dorner & Sons Co. had 100,000 plants in the field this year. Their new scarlet, G. H. Crane, shows vigor and proves a good strong grower. A house planted of this variety shows very little effect of the moving and the plants are standing as well as in the field. They have already housed their White Cloud, Flora Hill, Argyle, Mrs. S. A. Northway, Mrs. C. H. Duhme, Jubilee, Gold Nugget, Mrs. G. M. Bradt, Armazindy, Empress, Maceo, Glacier and some other varieties, and will probably finish planting the balance of their houses next week. F. E. D.

Detroit.

Carnations are doing very well in and about Detroit, the rain about three weeks ago having helped them out considerably, otherwise they would have been a poor lot. The growers are just beginning to house them; the weather could not be better for that purpose if it were specially ordered. P. B.

Chicago.

It is generally conceded that carnations in and around Chicago have never been in better shape at this season than they are at present. Particularly is this true in the few cases where the plants have been grown continously under glass, though field stock, with rare exceptions, is all that could be desired. The number of plants grown here this year will exceed all previous records by fully twenty-five per cent. Some growers are of the opinion that the largely increased extent of the plantations will have the effect of reducing the price of cut blooms to a serious degree, but others equally conservative claim that good stock will continue to bring ample returns.

The varieties most extensively planted will rank in about the following order: Wm. Scott, Lizzie McGowan, Portia, Nancy Hanks, Tidal Wave, Jubilee. Of course every grower plants in different proportions but the six varieties named constitute the bulk of every stock although nearly every one is growing other and new sorts to a greater or less degree. It is probable that Scott is planted in greater numbers than any other two varieties combined, but it is an odd fact that one of the largest growers, one who has nearly doubled his plantation this year, has thrown Scott out entirely, growing Triumph in its stead.

Cleveland.

Carnations about Cleveland promise at this time very well. The season out of doors has been better than the average for good, clean, hard growth, and as a consequence the plants, with most of the florists, are of good size and free from disease. There seems so far to be less evidence of rust, even on such varieties as Jubilee, than is usually the case, although, of course, it is impossible to tell what the moving in process, with its attendant heavy syringing and close atmosphere, may bring forth. Some growers have housed their stock, wholly or in part,

and where this has been done subsequent to the hot weather of late August and early September the plants look well. The bulk of the stock, however, is still in the open ground. In some instances the plants are still very small, but this only seems to be the case where the stock was planted very late, or has been grown under other very disadvantageous circumstances. Taken all around, carnations here look well, and failing unlooked for developments, they should make a good showing for the season of '98 and '99, so far as the production of flowers is concerned. A.

Richmond, Ind.

Carnations have done well here this year. The season has been all that could be desired for growing crops, and on carefully prepared ground carnation clumps are in fine shape, clean and healthy. No rust can be seen from end to end of the field, all varieties showing a healthy "bloom" on the foliage.

The great majority of the plants are now housed, and never have they been lifted with so little apparent check. We are all profiting by experience, the most careful attention being given to the preparation of the soil for benches. The plants are carefully dug, protected from wind and sun in transit from the field till again planted, and very carefully and with much exactitude set in the bench.

As to varieties hereabouts, Flora Hill excludes all other whites except White Cloud and Evelina of which we are so sure that we do not feel the large quantity planted is any experiment. All these varieties have made very fine clumps and have lifted nicely, not showing by any sign that they have been disturbed. In scarlets Jubilee occupies most space, with good clumps of trial patches of Wellesley and Bon Ton. In pink varieties, Triumph is leader with Victor a close second, Daybreak in quantity, and a nice patch of Mrs. McBurney. Argyle, Mrs. Joost and several other new pinks are on trial. In yellows, only Mayor Pingree and Gold Nugget have space. In flakes, Mrs. Geo. M. Bradt leads all others, but does not exclude Armazindy which has a place of its own. Besides these are two large houses of seedlings, the majority of them in their third year's trial. E. G. H.

A Fine Field of Carnations.

These 70,000 plants were set out the first two weeks in May between the showers so prevalent at that time in Philadelphia, there being twenty-one rainy days in the month. The soil had been manured and ploughed up last fall and this spring and afterwards a sprinkling of lime and wood ashes was harrowed in. A small portion not treated with the lime and ashes did not show such good results. Once a week the plants were gone over and trimmed into shape by pinching out the long shoots. Before the first of September the most of the plants were housed or sold to others for forcing. The varieties were Evelina, Triumph, Empress, Flora Hill, Mayor Pingree, Victor, and a few of Scott and McGowan. Melba, a new pink formerly called Elizabeth, forms a good part of the stock. The field is on the place of Robert Craig & Son, and the illustration is from a photograph taken the first week of August. K.

SUPERIOR, WIS.—Misses O'Sullivan & Fogarty have opened a flower and confectionery store at 1428 Tower avenue. It is a new departure for Superior.

Cultural Notes.

September 17.—Some growers follow up a house of chrysanthemums with carnations and this can be made very profitable providing the carnations are handled to give the best results.

We will assume that the house will be ready some time between November 15, and December 1, and the carnations, in order to give a crop for the holidays, will have to be somewhat specially prepared. It is well to understand, in the first place, that carnation plants that are brought in after the chrysanthemums and expected to make a crop of flowers for Christmas should not be used for propagating purposes.

They should be left in the field as long as possible without danger of frost catching them, but a frost will affect the flow of sap and thus give them a check that will be felt for some time.



SEVENTY THOUSAND CARNATIONS IN THE FIELD.

When you take the plants up select a cool, cloudy day, if possible, and use just as much care in taking them up as you would if you were planting in the house direct. Shake or wash nearly all of the soil from the roots and pot them into 4, 5, or 6-inch pots according to the size of the plants and the amount of roots they have. Avoid the necessity of repotting them and at the same time have a pot large enough so that they can not possibly become root bound.

In potting them use soil just as rich as you think the plants will stand. The best fertilizer you can put into soil for this purpose is some well rotted manure. As an overdose is apt to injure the root action of the plant it is well to be on the safe side and use not over one-third manure and two-thirds ordinary loam. Your regular potting soil would also answer the purpose but it is hardly necessary to use it if you can make up another just as good. At the time of potting cut out any malformed branch or other irregularity and then take a short stake and tie the plant to it loosely; the only object of the tie is to have the plant grow erect. After potting they should be set in a frame or a cool house. In placing them do not crowd. They should be syringed well three times a day, shaded heavily and kept from a direct current of air for the first week.

As soon as they are well established let them have all the sun and air possible during the day and if there are any warm nights through October, let them have some air after night. See to it that they at no time suffer for lack of water and if you find they can stand a little more feed give it to them in the shape of liquid stimulant.

They should be topped right along to within a month of the time you intend to plant the house; that is, topped with discretion. Some varieties will require closer topping than others. The object is to have a good set of buds and blooming shoots on the plants December 1, so that these can be, by a little manipulation, brought in for Christmas.

It is better to have them growing rather cool up to within a few weeks of the time you want to plant the house, then they can be kept at a temperature of about 50° at night and if you find it necessary to hasten their blooming you can increase this to 60° after they are established in the house.

The treatment in the house will be identical with any other house of carnations except that the plants will require a little extra food and heat in order to give results for the holidays.

In selecting varieties for this sort of culture you will want such as are quick in coming into bloom, have good stems and an extra good calyx. There would be no use in taking a variety that has any tendency to burst its calyx, for the extra feeding would give such a large percentage of bursted flowers that the variety would be profitless, and a weak stemmed variety would not stand the extra heat that it may be necessary to give to get the full benefit of them for Christmas.

Flora Hill is a good white for this purpose because it is such a quick bloomer and can be had set with buds so that it need not be put in the warm end of the house. It will stand lots of feeding and a temperature of 55°, but much above that will weaken the stem.

Triumph is the ideal pink for this purpose as it can, with a little manipulation in the way of topping, be made to produce a regular crop and, with liberal feeding and a temperature from 50° to 60°, can be brought into full flower

within three weeks and without a bursted calyx or a weak stem in the lot.

Amazindy is a good one on account of its freedom of bloom and its perfectly sound calyx and stiff stem. It will stand considerable stimulation but too much heat will make the flowers a bit soft.

Buttercup, properly handled, is also an ideal sort for this purpose and as it is the finest yellow we have it commands a price that helps swell the receipts from the house. There would be no use in attempting anything with small plants of this variety.

There are, of course, other varieties that will give good results and possibly others adapted to this sort of culture will come into the market this season. A little observation will enable you to select your sorts for another season and if you expect to be successful as a carnation grower you will have to be constantly planning ahead and keeping your eyes and ears open. ALBERT M. HERR.

Mr. Herr's Theory.

I am glad to see that Mr. Herr is frank enough to admit that his statements about indoor carnations running out were all guess work, although he repeats the statement in a positive way again in last week's article.

Now Mr. Herr is a very nice young man, and has shown much ability and been very successful, but there are a few things that we grey-headed, old-time, back-numbers have learned that may be of benefit to some of our younger friends. One of the most important of these is not to be "too previous." It is not well to too strongly emphasize our theories until we have tested them in practice, else we quite frequently will be confronted by the disagreeable necessity of owning ourselves in the wrong.

Especially should the writer for the public be careful to label both his theories and his facts, and not get the labels mixed, otherwise some unfortunate is likely to mistake some of the theories for proved facts, and suffer for his mistake. I have never personally grown carnations indoors through the summer, but have kept careful watch of how they do with a friend who has been experimenting for some time; and, from what I see, am almost certain Mr. Herr is all wrong in what he guesses about it. He says they are subjected to a degree of heat that is entirely opposite to their requirements, which can be verified by microscopic examination. This seems to be labeled a fact, but I think it is not true to name. Has Mr. H. examined them microscopically, or does he know anyone who has? And if some one has done so, and found a decided difference in structure, what reason is there to suppose that such a difference may not indicate an improved condition of the indoor plant instead of a deteriorated one? As for me, when I see indoor plants growing like weeds, the pictures of perfect health, surpassing outdoor plants of the same propagation in every way, I wouldn't give the snap of my finger for forty-seven microscopic analyses by forty-seven different microscopic experts. (What follows, Mr. Editor, I would like to have labeled "theory" with a 12-inch label.)

This idea of having a house of carnations grown cold and not allowed to flower, for propagating, is all bosh from start to finish. It is diametrically opposed to Mr. Herr's "fundamental law of the survival of the fittest." I am afraid Mr. Herr has not stopped to consider carefully what the "fittest" is. My idea is that the fittest carnation plant is that plant in the most perfect health and vigorous growth which is producing the greatest number of the largest, finest formed, best colored, and longest and strongest stemmed blooms. That is the plant I want my cuttings from, only not too many from one plant, and it is by taking cuttings from just such plants as these that a variety is bred up, and it is by taking cuttings hit and miss from all the plants in a house without knowing definitely about the quantity or quality of bloom each one will produce that a variety is bred down. Given healthy plants and a careful grower the progress up or down is slow, but just as sure as by over-propagation or propagation from diseased plants. The excellent work done by Messrs. Galloway and Dorsett on the violet, recently described in your paper, is a case in point, and the articles on selection in seed growing by Prof. Tracy set these facts forth fully. While the latter were written more especially with regard to seed growing, the fundamental ideas in them apply fully as well to the propagating of plants in other ways, and they should be read and reread by every grower.

Another objection to Mr. Herr's method is that it is almost certain to result in overpropagation, which has done more to ruin the vitality of stock than all the forcing for flowers. If a man is to set aside part of his glass for stock plants from which he can expect very little returns in cut flowers, he will naturally figure pretty closely and not waste any more room than necessary. Suppose he gets a chance to sell a few thousand cuttings or changes his plans and decides to plant a couple more houses to carnations; he is pretty sure to take those extra cuttings out of that same house, even though, as probably will be the case, he has already taken more than he ought.

X.



COMBINATION PLANTS—ARECA AND PANDANUS.

Indoor Culture.

I have been much interested in Mr. Herr's articles on the deterioration of carnations through being grown in summer under glass. We are now well into the third season under glass with one variety and the stock has shown marked improvement each year. This of course is not a sufficiently long time to settle the question beyond a doubt, but it makes one inclined to doubt the correctness of Mr. Herr's conclusions. W. N. RUDD.

A Green Variety.

ED. AM. FLORIST:—I would like to ask whether such a thing as a green carnation has ever been known? I have one which appeared in a batch of some 3,000 seedlings two years ago. The flowers are perfectly green. It is very odd looking and a free bloomer, I have raised many thousands of seedlings, but never saw anything like it before. S. L.

Combination Plants.

Many ways are now resorted to in order to have stock quickly ready for market and by combinations of plants of various sizes of the same kind a year or two is gained. Particularly is this the case with arecas and Kentias, which have been very successfully treated in this way. The graceful cocos is also being potted four to six together and will surely prove a good seller when grown to a marketable size.

The combination of plants of more than one species occurred to W. K. Harris, and for the past few years he has been experimenting along this line with good results. Latanias and arecas make a good combination, the broad leaves of the former coming down and covering the pot. If grown with plenty of light the latanias produce short leaf stems and surround the center plant symmetrically. The same may be said of Kentias and lata-

nias, K. Forsteriana working very well with the latter. The areca surrounded by Pandanus utilis makes a pretty specimen, the leaves of the pandanus falling gracefully over the sides of the pot.

Cocos Weddeliana and Dracæna Sanderiana make a very dainty combination and both being sturdy plants, doing well in the house, should, for this reason, become popular. Mr. Harris has also potted two or three plants of Pandanus utilis together, which have quickly grown into a salable and desirable specimen. In growing single specimens of this pandanus, he selects from young plants those with broadest leaves and every time a larger pot is necessary a number of the bottom leaves are removed and the plant placed quite low in the soil. By this treatment, when an eight or ten-inch pot is reached a beautiful specimen is the result, having broad bottom foliage close down to the pot.

Two latanias grown together have been found to produce a bushy, salable plant in a comparatively short time, and in larger sizes make beautiful symmetrical specimens which have the appearance of being but one plant. Mr. Harris' method of propagating Ficus elastica, that of rooting the branch on the plant, which tops the parent plant, making it send out several shoots and turning it into an even more salable plant than before while the cutting is at the same time going forward, in his estimation, beats all other methods of growing this popular plant. As an evidence of his ability in handling rubbers, he grew in two years from cuttings, plants that brought over $15 each under the hammer at a horticultural plant auction. K.

[One of these branching specimens of Ficus elastica is illustrated in our issue of September 10, page 139.—ED.]



COMBINATION PLANTS—ARECA AND LATANIA.

CHRYSANTHEMUMS.

Cultural Notes.

September 17.—The plants should be kept free from side shoots and suckers and if any roots are exposed on the surface of the beds they should be covered with well rotted manure. Now that the weather is getting cooler give your chrysanthemums an occasional fumigation before the buds are large enough to harbor the black aphis. Last season I noticed quite a number of fine blooms on the market that were literally alive with aphis, the under petals being fairly black with them. Of course the blooms were consequently worthless. Now is the time to prevent anything like this by keeping the fumigator going on every favorable occasion.

The weather we are having, cool and damp nights and not very bright days, is such that we have discontinued syringing the foliage and water the plants entirely at the roots. We are feeding them with manure water at every watering, which is about twice a week, but we go over the beds every day and moisten any very dry spots with clear water. The main point in applying stimulants is to never water the beds or pots when they are dust dry or the plants will absorb it too quickly and burn. Be sure to have the concoction in such a condition that it will pass freely through the soil. On cool nights leave a crack of ventilation so as to maintain a temperature of from 45° to 50° while the buds are swelling. As soon as they begin to show color the night temperature should be held as near as possible at 50°.

Specimen plants require their final tying out now. This is the time that they can assimilate quite an amount of stimulant. Do not stick to one kind, but change it at every application. Most varieties are commencing to show buds but only the main one on each stem should be allowed to remain. The plants should be in a position where they get the full light, with plenty of ventilation to prevent their becoming drawn. C. W. JOHNSON.

The C. S. A. Cup Contest for 1898.

The contest for the silver cup offered by the Chrysanthemum Society of America will take place in Philadelphia October 18 under the auspices of the Pennsylvania Horticultural Society. Contestants are required to exhibit thirty-six blooms in six varieties, the same to be judged by scale D, as adopted by the Chrysanthemum Society, which is as follows: Color, 25; form, 25; fullness, 15; stem, 10; petalage, 10; size, 15. All exhibits should be addressed to Edwin Lonsdale, Horticultural Hall, Philadelphia, express charges prepaid and shipped to arrive not later than the morning of October 18, as all exhibits must be in position ready for judging by 3:00 p. m. There will be no entry fee to contestants or charges for admission to the public.

ELMER D. SMITH, Sec'y.

Bismarck Funeral Designs.

Among the numerous designs made for the funeral of the late Prince Bismarck, according to *Die Bindekunst*, was a beautiful wreath of palm leaves in variety, auratum and speciosum lilies, hydrangeas and fronds of Pteris cretica variegata. This was sent by the German colony in Buenos Ayres, and measured three yards in height.

The German clubs of Brussels gave a wreath one side of which was made up of oak leaves with acorns and the other of bachelor's buttons, grasses and wheat sheaves. Some cycas leaves and Asparagus plumosus composed the background, and the piece was further ornamented with a ribbon in the German national colors.

A Guatemalan colony of Germans furnished a wreath of cycas leaves with a base of candytuft and stocks. It was garnished with auratum and Harrisii lilies, Kaiserin roses and centaurea. In addition to the cycas leaves a number of the magnificent steel blue fronds of Polypodium aureum were used.

A lyre was made of cycas leaves, the frame filled with stocks and strings composed of erica, the favorite flower of Bismarck. Around the lyre was an arrangement of cycas leaves and fern fronds intermingled with lilies and dahlias. At the upper right hand corner was a bouquet of Kaiserin roses and the lyre was crowned with five graceful cycas leaves.

The Germans of San Jose, Costa Rica, sent a wreath of erica, with a margin of Kaiserin roses, resting on a base of large latania leaves. In the center of the wreath stood a cross of stocks and Kaiserin roses, decorated with cycas leaves. A wreath from the Germans of Singapore was made of Kaiserin roses and centaureas, with a bunch of cattleyas fastened to the top and a garniture of cycas leaves. Another wreath of large dimensions was made of oak leaves with a bunch of cornflowers.

The Flower Markets of Paris.

We expect that a good many florists of the United States will visit our great exhibition to be held in 1900. It may therefore not be without interest for them to become a little acquainted with our flower markets, parks and flower shops.

The most important and at the same time oldest flower market in Paris is that called Quai aux fleurs. It was situated last century on the Quai De la Megisserie, which is well known, at least by name, to the leading American seedsmen. At the time to which we refer, it was not the fine thoroughfare it is now, but it used to be the business street of small bird dealers and ironmongers and was therefore nicknamed Quai De la Ferraille.

Regularly constituted in 1799, the Quai aux fleurs has occupied its present location since the year 1809.

The market proper, planted with fine specimens of Paulownia imperials, is bounded by the Prefecture of Police, the hospital known as Hotel Dieu, and the Tribunal of Commerce, near the famous Notre Dame church. It has 168 stalls, each covering an area of about eighteen feet, and the fee per day and stall is 36 cents. The market is held twice a week, on Wednesday and on Saturday.

Persons visiting the Quai aux fleurs after 8 a. m. can hardly form an opinion as to its importance. The covered section as described above is only used during the day by the middlemen, or rather middlewomen. The flower growers or horticulturists occupy the sidewalks extending from the Pont Neuf (new bridge) to the Pont D'Arcole on the left side of the river and from the Pont au Change to the Pont Notre Dame on the right side of the Seine, as also the sidewalks of the bridges themselves.

Nearly 400 stalls are given out to the growers, each measuring three yards by two, for which the city collects 18 cents per market day, the amount to be paid by the month and in advance, together with 8 cents per month for sweeping expenses. Besides the stalls on the covered space and on the sidewalks the city has a third series of places covering 900 square yards on the Quai De l' Horloge, for which the fee is 3 cents a yard per market day.

With its splendid beds of flowers in pots and baskets tastefully arranged along the sidewalks, the Quai aux fleurs is surely one of the finest, largest and most varied gardens that may be seen, and when in full swing, it affords enchanting pictures to the early risers. In ordinary seasons the growers begin to unload their wagons at 2 a. m., but on the eve of a great festival the bustle commences at 6 p. m. on the previous day, and the transactions last all night. It is then that the market is most interesting and ought to be seen with its throngs of porters, costermongers, salesmen and buyers, hurrying to and from their wagons and carts like a hive of bees, of which even the best photo can give but a faint idea. By 8 a. m. the plants must all have been removed from the sidewalks of the quays and bridges, also the wagons, in compliance with the police regulations.

The various festivals give the greatest impetus to the traffic. On the Feast of the Assumption, for instance, the traffic done at wholesale prices amounts to over $100,000 and it requires not less than from 900 to 1000 wagons to carry all the plants to the market. The Quai aux fleurs is reputed to be the cheapest market, and on the festivals it is not uncommon to meet country flower merchants who come from a distance of seventy-five miles to buy the plants they cannot buy at home.

After 8 a. m. the retailers sell their products in the stalls of the covered section to which we have already referred as being the market proper. Here we may, during the market days, find the rich and poor jostling each other. The student who buys some flowers for his best girl, and the shop girl who selects some flower pots to adorn the window-sill of her dwelling room on the sixth floor, are elbowing the poor widow who carries a basketful of petunias, bought with hard earned cash to embellish the tomb of a beloved husband, the inconsolable mother who mourns a dear child, or the holy sister who purchased some flowers to soothe the sick. The fact is that flowers have always been one of the necessaries of life to the French people, in happy as well as in sad circumstances.

Tourists shopping in Paris during All Souls' Day cannot fail to notice the great number of people carrying wreathes and the enormous quantities of flowers taken to the graveyards on that day. The Parisians reverence their deceased parents and friends as much as any other people in the world. This is ample evidence that after all our gay city is not so wicked and not so irreligious as many foreigners may be inclined to believe from hearsay or from what they have read. The writer happening, a few years ago, to stay in New Orleans on All Saints' Day, and paying a visit to God's Acre, was glad to see that the decendants of the French settlers continue to revere the good traditions which have been handed down to them by their ancestors.

At the last meeting of the horticultural society there were exhibited some nice pot plants of the new zinnia, Mignon, resembling in habit and size of flowers Z. Mexicana flore pleno, but of varied colors. Other plants exhibited were cannas Austria, Italia and Alsace, the last kind introduced as a white-flowered variety by a Philadelphia firm. Though not exactly white, of all known cannas it comes nearest to that color and may be the forerunner of a really white variety. Vilmorin sent in a splendid collection of Lemoine's gladioli, including the new bluish colors such as Micromegas, Pierre Loti, Nebulense, Baron Joseph Hulot, Reve bleu, etc., and other fine kinds as La Czarine, Jane Dieulafoy, Julien Gerardin, Professeur Lemonnier, Ferdinand Kejeljan, Eugene Rambert, General Duchesne, Beatrix, Admiral Gervais, etc. A first-class certificate with high commendations were awarded to them. PARISIAN.



ARRANGEMENT OF PLANTS IN PARIS FLOWER MARKET.

WYNNWOOD, PA.—Thomas Kent leaves September 21 to spend a few months at his old home, Sturston, near Ashbourne, Derbyshire, England.

The Canadian Horticultural Society.

The first annual convention of the Canadian Horticultural Society was held at Toronto, September 7 and 8. At the opening session an address of welcome was delivered by Mayor Shaw, who was responded to by Mr. Geo. Vair. The address of the president, Wm. Gammage, of London, was read and adopted as were the reports of the secretary and treasurer.

A communication from the Gardeners' and Florists' Club of Montreal, suggesting that this society should become a parent society for all the Canadian horticultural societies, was read and a committee was appointed to consider the matter, reporting as follows: "It is the unanimous opinion of the committee that this organization should be devoted to the interests of the trade, florists, seedsmen and nurserymen, commercially interested in horticulture exclusively."

At the afternoon session Harry Dale, of Brampton, read an interesting paper on "The Rose," and Colin Campbell, of Montreal, opened a discussion on Dutch bulbs. After Mr. Dale's paper a discussion on "What is the most economical fuel?" took place and many varied opinions were expressed. George Hollis, of Toronto, read an excellent paper on carnations. Wm. Gammage told in a very interesting manner "How to make a flower show pay," but the opinions expressed by those present were diversified. The secretary, Hugh McLean, handed in his resignation, which was accepted.

At the evening session J. H. Dunlop, of Toronto, read a paper by W. Wilshire, of Montreal, upon "Dutch Bulbs; can they be grown at a profit by the retailer?" As upon other matters, the opinions expressed upon this subject varied greatly. F. G. Foster, of Hamilton, said that only Romans, Von Sion and white Dutch hyacinths pay. J. Bennett, of Montreal, thinks they all pay.

On Thursday carriages were provided by the city and the members had a very pleasant drive through the horticultural gardens, Rosedale park, Queens park, the university grounds and College street to High park, where an excellent lunch was partaken of and the usual loyal and other toasts offered and responded to. The members then visited the exhibition grounds.

The city of Ottawa was chosen for the next annual meeting in August, 1899, and the following officers were elected, mostly by acclamation:

Wm. Gammage, London, president; C. Scrim, Ottawa, first vice-president; P. McKenna, second vice-president; A. H. Ewing, Montreal, secretary; Jno. H. Dunlop, Toronto, treasurer.

Colin Campbell was elected to the executive committee for one year to fill the place vacated by Mr. Scrim, and the following were elected for three years: Mr. Muston, of Toronto; Mr. Johnston, of Kingston, and Mr. Bennett, of Montreal.

The members having viewed the trade exhibition in the Horticultural building, a report of the committee thereon was read and adopted, and Professor Fletcher, of Ottawa, delivered a lecture upon "The Diseases of Plants." The proceedings were then terminated for 1898. S. P.



A FRENCH PEDDLER OF FLOWERS.

READING, PA.—The Metropolitan Greenhouses on Fifth street, near the Auditorium, have been leased to Hoskin & Giles.



PARISIAN FLOWER WAGONS.

New York.

THE ANNUAL DINNER OF THE GARDENERS' SOCIETY WAS A BIG SUCCESS.—MEETING OF THE N. Y. FLORISTS' CLUB.—INTERESTING POINTS ON CLUB MANAGEMENT.—BUSINESS STILL DULL.—AUCTION SALES.

People whose business called them within a mile of the corner of Sixty-seventh street and Third avenue, on last Saturday evening must have thought that Bedlam had surely broken loose in that neighborhood. Rolling balls, falling tenpins and shouts from a hundred throats and over and above all the screeching of bagpipes and yells of "Eat 'em up," "Eat 'em up," made a din to which no description can do justice. It was the second annual dinner of the Gardeners' Society and incidentally six teams of ambitious bowlers were striving mightily for the ownership of a handsome ball and a number of trinkets that had been put up as trophies. Philadelphia, smarting under the disaster at Omaha, sent a full team with two men to spare, John Westcott as coach and Charlie Longinette, who was too sick to bowl but whose lungs were apparently in excellent condition. Philadelphia also brought an empty satchel along with them; they took it home full, having gobbled up everything in sight excepting the prize offered for private gardeners only.

The teams were made up as follows:

Philadelphia—Habermehl, G. Craig, Walker, Connor, Kift and Brown.

Orange, N. J.—Smith, Rose, J. Manda, Atkins, W. A. Manda and Grey.

Hoboken—Dietz, Hansen, Wittman, Fischer, Schiller and Brown.

Flatbush—Riley, A. Zeller, Brennan, Schmutz, Mellis and E. Dailledouze.

New York Florists—J. Young, T. Rochrs, O'Mara, Plumb, Bunyard, and T. Lang.

New York Gardeners—Prosser, Brett, MacDonald, Bartholomy, Henshaw and Troy.

At no stage of the proceedings was anybody "in it" but Philadelphia. Two games were played, the aggregate scores being as follows: Philadelphia, first game, 874; second game, 972; Flatbush, 760, 781; Orange, 800, 735; Hoboken, 814, 687; New York Florists, 711, 769; New York Gardeners, 667, 748. Habermehl, of Philadelphia, made the highest average and the highest individual score, 203, thus winning the individual trophies and—what elated him much more—beating Scott's Omaha feat by three pins. Secretary Bartholomy, of the Gardener's



COVERED STALL IN PARIS FLOWER MARKET.

Society, won the private gardener's prize, a pretty little gilt clock.

After the first game supper was served, the march to the banquet hall being led by piper Halliday, of the Caledonian Club, with that lordly strut which only a bagpiper can assume, and with magical effect upon the heels of some of his susceptible countrymen. P. O'Mara, at the request of President William Scott, acted as toast master, but only very brief remarks were in order, all being anxious to return to the alleys. Robt. Kift responded for the Philadelphia visitors, W. A. Manda for Orange, Eugene Dailledouze for Flatbush, C. Dietz for Hoboken, Wm. Plumb for the New York Florists, Samuel Henshaw for the New York Gardeners and Messrs. Leonard Barron, W. J Stewart, Alex. Wallace and J. I. Donlan for the journals which they represent. Altogether it was one of the jolliest times on record and highly creditable to its promoters.

The first meeting for the season of the Florists' Club was held on Monday evening, September 12. The programme was a general discussion and interchange of views as to how to extend the club's influence and increase its popularity. H. A. Siebrecht said that sociability and mutual good feeling should be considered among first requisites of success in such an organization. He believed in encouraging exhibitions and that members should make it a matter of duty to attend the monthly meetings. Sam'l Henshaw assured the officers of the old men's loyalty and sympathy and A. Herrington suggested something in the way of exhibitions of special flowers at each gathering of the club. E. Koffman thought there should be another ladies' night, the last one having been so successful. Louis Schmutz deplored the late defeat of the Flatbush aggregation at bowling. W. A. Manda believed in a greater encouragement of exhibitions and athletic sports and suggested also a ball and elaborate decoration in connection therewith. Harry Bunyard believed a bowling club should be revived and John Morris amended this by the addition of a bicycle club, concluding with a patriotic speech that was much applauded. Messrs. Troy, Roehrs and Burns each endorsed the proposition to start a bowling team. Patrick O'Mara referred to the present prosperous condition of the club, which the secretary assures him is the best in its history. He believes that an exhibition fund could be raised and the income made good use of, and suggested that cheaper banquets, lower dues and more frequent outings might be found desirable. He referred to the prevailing sentiment in favor of inviting the S. A. F. to New York City in 1900 and heartily endorsed the idea, which it is none too early to begin to develop. A. L. Miller believed in direct appeals from the secretary's office to bring in a larger membership. Alex. Wallace advised the installment of a question box and the discussion of practical cultural problems. C. B. Weathered suggested a junior membership at half regular dues for employes of florists, and John Young endorsed the proposition to invite the national society. W. J. Stewart recommended that in organizing for bowling practice the privileges be not restricted to a few but be broadly extended to every member of the club. All the above recommendations were then referred to the board of trustees. Mr. Wallace gave a brief account of his experiences in Omaha, approving the way in which the western people turned out, praising the activity displayed in the meetings by the older members from the east, and spoke enthusiastically of the entertainment that had been provided. Mr. Stewart added a few words regarding the splendid effect of the cannas, oleanders and other horticultural adornments of the Exposition grounds, and then, on motion of Mr. O'Mara, a unanimous vote of thanks was extended to the Nebraska and Iowa Florists' Club for the hospitality and courtesy extended to members of this club and expressing a hope for the honor of reciprocating in 1900. After adjournment several of the members betook themselves to a bowling alley, but the scores they made are discreetly withheld.

Business is still very dull but the weather is cool and bracing and everyone feels like working. Roses are very plentiful and prices low, only American Beauty showing any activity. Carnations are scarce. Dahlias are beginning to come in freely. Rowehl & Granz, at Hicksville, have 25,000 dahlias blooming, many of them seedlings, some being almost identical in form with a chrysanthemum and admirable for cut flower purposes. The first chrysanthemums of the season were seen at E. C. Horan's last week, the variety being Mme. Bergmann.

The New Jersey Horticultural Society had an enjoyable smoker on Monday evening at Decker hall, Orange, which would have been visited by a number of their New York friends if the event had

not been set for the same date as the regular monthly meeting of the New York Florists' Club. A bowling club was organized.

W. A. Manda made an exhibition at the Florists' Club meeting of a very fine collection of bromeliads, also Helenium autumnale superba, a crested and a compact form of Pteris tremula and the new dwarf white Phlox paniculata Tom Thumb.

Cleary & Co.'s auction room is in full bloom once more. Cleary will have a big trade sale at the greenhouses of Julius Roehrs on September 21.

A. L. Marshall showed flowers of a handsome pale yellow, almost white canna at the Gardeners' Club meeting.

August Rhotert and E. V. Hallock are both back in their accustomed places down town.

Chicago.

BRIGHT PROSPECTS ALL ALONG THE LINE.—A BUSY WEEK.—ROSES IN SHORT SUPPLY AND CARNATIONS IN DEMAND.—FLORISTS' CLUB AWAKENS.—PERSONAL MENTION.

It is, perhaps, without reason that the future presents a roseate view, for, while the week has brought an increased demand, the shortage of blooms has been sufficient to account for the advance in prices which has marked the past few days. Still, every grower, wholesaler or commission man and retailer sees in the present brisk call for flowers an indication of an excellent fall business.

Taking all things into consideration, business has been excellent this week. Roses have sold to the last bloom, and, like Oliver Twist, the retailers have cried for more. Beauties of the first quality, of which there are very few, command $3 a dozen, while the common stock, of which there is an ever increasing cut, sells readily at $1.50. The Meteors which some of the growers have sent in this week have been of superior merit and have been considered bargains at 4 cents each. Bride, Bridesmaid, Perle, Kaiserin and Carnot have all been in supply less than the demand for first class blooms. As a rule the rose plants have not yet entirely recovered from the check received from the sudden change in the weather, but it is the consensus of opinion that rose plants never looked better or were set with more buds than they are at present. There promises to be an abundant supply of fine flowers for Peace Jubilee week.

Nearly everyone has had calls this week for more carnations than he could supply. The major portion of the cut is either Scott or Daybreak, but any fairly good blooms have brought $1 per hundred, which is an excellent average for field grown stock. The week has seen nearly the end of the gladiolus and aster crop.

The Florists' Club is preparing for a season of activity, and held a preliminary meeting at Handel Hall last evening. During the winter months the club, which is in a prosperous condition, will meet on the first and third Fridays, and will listen to a series of essays and discussions, and will make bowling a feature of its programme. A number of plans have been discussed to add to both interest and membership, but as yet no definite steps have been taken along any of the new paths suggested.

"Moscow," the Temple florist, has been relieved, to the extent of $1,250, of the abnormal "roll" which he has been credited with carrying. The sporting men who did it are under arrest. They claimed special facilities for investment through wire tapping.

Joseph Singler and Miss Jessie Warden were married on September 15. The groom is the senior member of the firm of Singler Bros., of Morgan Park, and his bride is one of the most charming young ladies of that suburb.

Interest in bowling is increasing with the return of cool weather. Last week Ed. Winterson made the high average, 147, but the Stollery brothers, who are inveterate bowlers, were close behind.

President-elect W. N. Rudd, of the S. A. F., has been at Omaha this week attending the annual convention of the Association of American Cemetery Superintendents.

Arnold Ringier is at home from a six weeks' successful business trip in the interest of W. W. Barnard & Co. He covered the principal cities from St. Louis eastward.

After a stay of about nine days Peter Barr left for Milwaukee Monday evening. He expects to pay a second visit to Chicago in December.

Geo. Scott, of Bassett & Washburn, is wearing his neck in a bandage as a result of a visitation of a brace of "Job's comforters."

The Central Floral Company has this week displayed some beautiful blooms of the new rose, Mrs. Robert Garrett.

Vaughan's big chimney at Western Springs was struck by lightning the night of September 13; damage nominal.

The numerous friends of Burt Eddy will regret to learn that he is ill with malaria in Virginia.

Phil. Hauswirth, Mrs. Hauswirth and Miss Annie Kreitling spent this week in Terre Haute.

Some of the Dutch bulbs received by local growers were found to be decayed or burned in the cases.

Walter Kreitling celebrated the fifteenth anniversary of his business career this week.

The Bowmanville florists and others are agitating a 5 cent fare to the center of the city.

There is considerable activity at present in the way of dining car decorations on the various railroads.

The first violets of the season have made their appearance.

The first bouquet green of the season is now in at Vaughan's.

Among the week's visitors was John Willius, of Danville, Ill.

Boston.

A PLEASANT VISIT TO WELLESLEY.—BUSINESS IN SATISFACTORY CONDITION.—COLD WEATHER MAKES BETTER FLOWERS.—AQUATICS AND OTHER EXHIBITS AT HORTICULTURAL HALL.—VISITORS.

Bailey's Hotel at South Natick opened its doors to another happy party of gardeners and florists last Thursday and the old dining room, which repeated visits have made familiar to the boys, was once more brought into requisition. The host on this occasion was Fred L. Harris, whose invitation to spend the day with him had been responded to by about forty appreciative friends. A couple of hours were first devoted to strolling about the Hunnewell estate, the beauties of which can never be half told, and through the conservatory and greenhouses, where the wonderful resources and skill of America's foremost gardener are so well displayed. To Bailey's Hotel the party was then conveyed in barges and the mental feast which all had enjoyed was supplemented by a material and substantial one. The usual interchange of compliments and remarks both practical and witty followed, under the direction of that model toastmaster, Judge Hoitt. The high privilege and honor of gathering around their much-loved friend of so many years was the theme on every tongue. May his life and health be spared for many more years to the fraternity to which he has added so much lustre.

Business has been gratifyingly brisk here and all feel that a prosperous season is about to be inaugurated. The excessively hot weather has been followed by a continued spell of precociously cool weather with bright sunlight, the effect of which has been to improve the quality of roses and other indoor products and to brace up carnations and other outdoor flowers, so that the stock is much better all around. Lily of the valley is in short supply and the light receipts are readily disposed of, but at no advance in prices over recent rates. American Beauty roses still maintain their position as leaders in popularity, and there is every prospect that they will hold it undisturbed through the coming season, but to bring fair figures, or even to find a buyer at any price, they must be good. Inferior Beauties are the worst kind of dead stock in this market, and this preference becomes more pronounced each year.

On Saturday last Oakes Ames exhibited Cypripedium Gravesiæ at Horticultural Hall. There were also on exhibition interesting collections of herbaceous flowers from W. N. Craig and Rea Bros., phloxes, zinnias, etc., from L. W. Goodell and dahlias from Lothrop & Higgins. In the aquatic section there were displays of hardy nymphæs from L. W. Goodell and Oakes Ames, the latter receiving honorable mention, and H. A. Dreer also received honorable mention for Nymphæa Husteriana.

Visitors in town: A. Wadley, New Brunswick, N. J.; Harry Simpson and S. S. Pennock, Philadelphia, Pa.; Thos. B. Meehan, Germantown, Pa.

Philadelphia.

BUSINESS IS IMPROVING AND THE FALL PROSPECTS ARE OF THE BRIGHTEST.—CARNATION PLANTING.—BOWLING MATTERS.

Business is picking up very slowly, but many familiar sun-browned faces are noticed on the streets and it will not be long before things will begin to move. The cool weather of the past week has improved stock considerably. Rose buds have more substance and are much better in color. Beauties are fast getting into form and at their present price, with the exception of white roses, have the field almost entirely to themselves. Asters are poor, being cut out entirely with some growers, and there is a race on now among the chrysanthemum (we almost forget how to spell it) men as to who will be the first in the market. The stocks are looking well, there being little if any disease. Montmort will be first, with Merry Monarch next, and then the deluge. Let it come, however, for this is to be a great fall, with the Peace Jubilee, then the receptions to the individual big guns, the weddings and incidental affairs, followed by the lovely debutante.

Prices remain about the same, in fact Beauties are now shaded a little. Most of the growers have their carnations housed and report the stock in better condition than usual at this season of the year. Wm. P. Craig, who is becoming quite a carnation expert, says there is an increase

of fully thirty per cent in the number of plants being forced this season for the Philadelphia market. If Mr. Craig's estimate is correct we hope the demand will be found at the close of the season to have kept up the pace, otherwise our small army of fakirs, now almost unmanageable, will surely be in command. Lily of the valley has become scarce all at once. It is not very nice to have an order for it for a week and then when the time comes find out that there is not a spray in sight. This was the situation with some of the stores last week.

The bowling contingent that visited New York last Saturday, on the invitation of the New York Gardeners' Society, were greatly pleased with their trip. Besides a royal good time they were rewarded for their skill by bringing back the trophy of the match. Captain Habermehl was in great shape and saw "Buffalo Bill" three better than his fine score of 200 made on the plains of Omaha, by putting up 203 and then 179, thereby winning the high score and also the prize for the best average. Our friend William says, "Of course we will win in Detroit next year." Well, Billy, you may, but you will know that a team from the Quaker City was there as well as those St. Louis boys, and look out for that rejuvenated New York team. A contest is to be inaugurated soon on the Philadelphia alleys the winners of which, to the number of eight, will be given round trip tickets to the Detroit convention. Each month's average from October until August will be recorded in a contest once a week. The expense will be met by a theatrical benefit. There is no more pleasant way of spending an evening than with a jolly crowd on a ten pin alley; the cost is small and there is fun and excitement from the start to the finish.

David Rust, the general secretary of the horticultural society, wears a smile these days that is at once child-like and bland. It's a boy, the first born, and arrived last Monday. K.

San Francisco.

GOOD SUMMER BUSINESS.—ROSES SCARCE.—CARNATION MATTERS.—ASTERS HOLD SWAY.—CHRYSANTHEMUMS DOING SPLENDIDLY.—NOTES OF PERSONAL DOINGS.

Business has been fairly good here during the past few weeks and nearly all kinds of stock is moving along nicely at fairly good prices for this season of the year.

There is a scarcity of first-class roses of nearly every variety, but the crops from the newly planted houses will soon begin to make their appearance. Some very good Testouts, however, are to be seen and bring a good price. The weather here lately has been very favorable to the growth of young stock and on the whole rose prospects for this winter are excellent.

The replanting of carnation houses still goes on. The average grade of plants being grown is good and stock never looked in better condition, Scott, Daybreak, Flora Hill and Portia are the varieties most extensively planted. Flora Hill made such a good impression on the growers last season that some of them have planted it quite largely.

Asters seem to be the flower at present and very large quantities of them are used daily. Semple's branching is the most popular. The red Semple has taken very well this summer. There are some magnificent new shades of red and pink but they seem hard to hold to type. The large dark lavender is also in much demand.

Chrysanthemums are doing splendidly outdoors and never looked more promising. At the beginning of the planting season things looked rather blue for the growers on account of the great scarcity of water but fortunately the supply was large enough to go around. In some places varieties like Mrs. J. G. Whilldin have begun to show bud and in some cases the flowers are beginning to open. Chrysanthemums are going to be very early this season, much more so than in previous years. The Chinese growers, as usual, have a large acreage planted, but as they grow only a cheap grade of flowers they cannot command good figures. They also have a quantity of violets planted. Violets have all made a nice growth and also promise to be earlier than last season.

Amaryllises are still coming in largely but the price has dropped considerably. Japanese lilies are selling very well. Not many auratums are to be seen, but large quantities of albums and rubrums find their way into the market every day and are nearly all disposed of at good figures. Some sweet peas are also to be had and strange to say the quality is fine considering the season, the colorings and form being all that could be desired. Smilax is growing splendidly and we will probably have enough of this article this winter.

P. A. Kiley, of the Braslan Seed Growers Co., who has been spending the past few months on this coast, has returned to Boston.

It is reported that we are to have a flower store under the Baldwin Hotel. This is probably the finest location in this city.

Chas. W. Beebe spent several days in San Jose last week.

Chas. P. Braslan came up from San Jose during the week.

Mr. K. Domoto, of Domoto Bros., paid a visit to the different growers on his way home from Monterey.

Paul W. A. Grallert, the carnation grower, is busily engaged preparing for this season's trade. His very large stock of carnations is looking very fine. His novelties are also in good shape.

Mr. C. Holbrow is now head gardener for Mrs. Kohl at San Mateo.

Heavy shipments of seed have been going east during the past few weeks from the different seed growers at Santa Clara.

C. C. Morse leaves on his annual eastern trip in the course of a few weeks.

M. Lynch, of Menlo Park, is busily engaged in having his carnation houses replanted. Flora Hill, Portia and Scott are the only varieties grown there. The rose houses are looking very promising as are the chrysanthemum houses.

It is said that John Gilmore is going to start for himself growing cut flowers across the bay. METEOR.

St. Louis.

ROSES AND CARNATIONS ARE IN SHORT SUPPLY.—TRADE IS IMPROVING.—FLORISTS' CLUB MEETS.—CARNATION MEN AND WATER TAKERS CONFER.—JOTTINGS.

The fall in temperature caught many of the rose growers short of stock. They had disbudded rather freely the week preceding, a heavy crop being on, and the cool weather following curtailed the cut to such an extent that stock was short, prices going up to 3 and 4 cents. Carnation men are in the midst of the housing season, and there is very little to be expected from them for some time. A few of the earlier housed plants are being cut from but the indications are that there will be a shortage until the first part of next month. Asters are about over.

The regular monthly meeting of the Florists' Club was held September 12, but owing to the meeting night conflicting with the night devoted to bowling, the attendance was curtailed to some extent. Very little except routine business was transacted, although at one time there seemed to be an experience meeting of carnationists in progress. There was a general inquiry for stock and especially for Daybreak, which seems to to have behaved poorly with nearly all of the growers. Those who have tried growing their plants in pots are enthusiastic advocates of this method, more especially when the varieties are inclined to be indifferent growers in the open ground. A question in regard to the cost of water was broached and elicited considerable debate. The discussion was started owing to the new water works company of Belleville having charged consumers at the rate of 40 cents per thousand gallons on their first bill rendered. This is regarded as excessive by those using large quantities of water.

Richard Frow and Henry Berning were elected members of the club, and the committee having had in charge the transportation to Omaha was authorized to draw on the treasurer for enough to cover incidental expenses of the trip to the convention.

Invitations are out for a meeting of the bowlers, and a few congenial spirits at the greenhouses of Beyer Bros. This is to celebrate the bringing of the Evans cup to St. Louis.

Owing to a strike among the plasterers the St. Louis Cut Flower Company was prevented from moving into its new quarters on time; they expect to be located, however, by the first of the month.

Mr. Ungergagt, of Springfield, Ill., and Mr. and Mrs. Vesey, of Fort Wayne, Ind., were in town last week.

Mrs. Charles Kuehn has returned from her trip to Detroit. R. F. T.

Helpful Reminders.

The leaves are beginning to turn and will be falling. Do not rake them up and burn them but save every one, for there is nothing of greater value for a winter covering or, when rotted, as an ingredient for the compost heap. The fall rains are preserved by the covering of matted leaves, which prevents evaporation and preserves the heat in the soil. Long after the tops have experienced severe cold valuable root action takes place when nature has been allowed to have her own way, and the protecting leaves and grass have not been cleared away. Nature is seldom unsuccessful in her plantings and we cannot do better than to follow her tactics in furnishing protection to the vegetation which remains out of doors all winter. Stop sprinkling your lawns now and let the grass grow long and remain until spring. You will have a far better turf next season.

It is not necessary to have palms in one place and ferns in another. Take a house without a bench, that you can keep up to 60°; place large palms on cedar posts so that the leaves do not quite touch; then on irregular mounds between place your larger pots of ferns. They agree and after a time young ferns begin to grow which can be taken up and potted. You can place large and small plants in the same house and the effect is more pleasing and one less bench to decay. C. B. W.

THE AMERICAN FLORIST

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Subscriptions accepted only from those in the trade.

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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

LABEL dahlias and like stock before frost makes it impossible to do so with certainty.

AN International Horticultural Exhibition is to be held at Geneva, Switzerland, in June 1899.

EVERYBODY knows enough to look out for those early frosts and to house the very tender stock or protect it.

PHOTOGRAPHS of flower beds, etc., can now be taken. If you have something really good and effective, please send a copy.

ECKFORD'S exhibits of new sweet peas in England this season have shown several good ones in solid colors, a fine crimson and a brilliant blue being noticeable.

AN English writer, in a disgusted way, characterizes certain carnation blooms as having petals with a saw edge and says no one would look at them twice. Down in Boston they call the saw edge a fringe and won't look twice at a flower that hasn't it. Funny, isn't it?

"OLD BAKE," as he is affectionately called, has more scores of over 200 to his credit than any other Philadelphia bowler. He made another total of 220 this week. John Westcott, however, holds the club record with 229 and 228, followed by Moss with 224 and Connor with 221.

WHEN frosts approach and dahlias have the stems cut away and are lifted, stand the tubers in a shady place out of doors for a few days, covering at night. Thus exposed they will lose a portion of their moisture and be in better condition to keep well when stored in a box of dry sand. Caladiums can be treated the same way.

International Horticultural Exposition.

The United States Department of Agriculture has received through the Department of State a communication from Count Cassini, Russian Ambassador, stating that the Imperial Russian Horticultural Society will hold an International Horticultural Exposition at St. Petersburg in May, 1899. The United States is invited to take part in the exposition by sending exhibits and special commissioners to prepare the American section. Exhibits of foreign exhibitors duly accredited will not be subject to customs' inspection at the Russian frontier. Privy Counsellor Fischer von Waldheim, Director of the Imperial Botanical Garden at St. Petersburg, has charge of the foreign sections of the Exposition with the functions of president, and all inquiries relative to the Exposition should be addressed to him.

Greenhouse Building.

Lynn, Mass.—Tapper Bros., one commercial house.

Warren, R. I.—C. & G. Barker, one commercial house.

Cleveland, O.—A. R. Teachout, one commercial house.

Torresdale, Pa.—P. M. DeWitt, one house 20x150, one 10x150.

Prairie du Chien, Wis.—Robert Gugler, house 12x50.

York, Pa.—O. Palmer, one commercial house.

Oconomowoc, Wis.—Otto Sylvester, three violet houses.

Catalogues and Cut Flower Price Lists Received.

J. L. Dillon, Bloomsburg, Pa., carnations; Ellis & Pollworth, Milwaukee, Wis., carnations and cut flowers; Henry F. Michell, Philadelphia, Pa., bulbs; J. C. Vaughan, Chicago, Ill., bulbs; Dan'l B. Long, Buffalo, N. Y., bulbs; Lee, Watkins & Co., Evergreen, Ala., evergreens; Albert Fuchs, Chicago, Ill., plants; Wood & Stubbs, Louisville, Ky., seeds and bulbs; The Richmond Stove Co, Norwich, Conn., heaters; Louisville Spirit Cured Tobacco Co., Louisville, Ky., insecticide; Des Moines Manufacturing and Supply Co., Des Moines, Iowa, boilers; Louis Paillet, Chatenay, nr. Paris, France, plants; William Barron & Son, Barrowash, Derby, England, plants; Dickson's Nurseries, Chester, England, carnations; Cincinnati Cut Flower Co., Cincinnati, Ohio, cut flowers; The Stillwell-Bierce & Smith-Vaile Co., Chicago, Ill., pumping machinery.

Exhibitions.

Beverly, Mass.—The second annual show of the Beverly Improvement Society, was held at the City Hall on September 7. The exhibition was much better than that of last year, but the attendance was not so large.

Melrose, Mass.—The Melrose Amateur Gardeners' Society held their annual exhibition at the Town Hall on September 12. There were in addition to the competitive displays a number of large collections from the conservatories of public-spirited citizens, not for competition.

Winchendon, Mass.—The First M. E. Society gave a very pretty flower show on the afternoon and evening of September 3. The hall was handsomely decorated with booths of evergreen and the national colors.

Lynn, Mass.—The annual exhibition of the Houghton Horticultural Society will take place on September 27 and 28.

Aster Blight.

ED. AM. FLORIST:—Can anyone give me a remedy for this? Quite a percentage of my plants produce abortive greenish flowers or half opened buds. E.

The Aster Disease.

Numerous complaints of a disease which affects asters have reached us, and so far it appears to have defeated all attempts at eradication. The growers in England, apparently, have to contend with similar difficulties. W. P. Wright, of Kent, says the *Gardeners' Magazine*, recently sent some specimens of diseased asters to the scientific committee of the Royal Horticultural Society, observing that growers of asters in East Kent, especially in the Dover district, are in trouble over an aster disease, which destroys thousands of plants. Some go off directly they are put out, others at a later stage. He found small white grubs in the lower part of the stems, and did not feel any doubt that they were the cause of the mischief. The committee stated that in the *Naturalist*, the organ of the Yorkshire Naturalists' Union, there is a paper by the Rev. Hilderic Friend on this subject. The worms in question are of the family enchytræidæ, a group of annelids. Mr Friend discovered a presumably new form in China asters, and named it E. parvulus on account of its minuteness. A full description of the worm is given in Mr. Friend's paper. There is nothing to be done but consign the plants attacked to the flames.

More About Boilers and Pipes.

ED. AM. FLORIST:—I am very much troubled with water in my boiler room and intend to raise the boiler to the surface of the ground. I want to heat two lean-to houses with hot water, one running east and west—back eight feet high, front four feet—the other north and south—back ten feet high, front four feet—with boiler shed at the northwest corner. The ground is all level and I wish to know whether it will work satisfactorily to run the supply pipes along the ridge and the returns underneath the benches, the benches being about two feet from the ground? The houses are sixty feet long. The return would join the boiler about ten inches above the bottom, the latter being connected with a water tank giving about seven pounds of pressure. Would one 2-inch pipe suffice for the supply of twelve 1-inch pipes? G. O.

The water will circulate with the pipes arranged as described, but if 1-inch returns are to be used, as I infer from a part of the question, there will be so much friction that it will not be satisfactory unless the boiler is strong enough to permit of the closing of the system and running it under twenty pounds or more pressure. If the boiler is not intended to carry pressure, fairly good results will be obtained if the boiler can be sunk so that its top will be level with the lower end of the returns, although it would be even better to use 2-inch pipe for the returns. Except under pressure six 1-inch pipes are all that should be carried by a 2-inch main and it would be better not to use more than four. L. R. TAFT.

Adiantums in Rose House.

ED. AM. FLORIST:—I intend to grow Adiantum cuneatum in a rose house (temperature 65° to 68°) and wish to know whether it would be best to grow them in pots or planted out on a bench which is built and prepared for roses? The plants are raised for cutting fronds only. Will rose house soil suit them? J. L.

The rose house temperature as above stated seems high for all roses, excepting possibly Meteor. Night temperature is meant, it is presumed. Adiantums might be grown in the temperature indicated when making their first crop of fronds, but in order to harden them so that they could be used satisfactorily after being cut, the night temperature should be lowered to from 55° to 60°. We prefer to grow Adiantum cuneatum planted out when they are raised for cut fronds only, but the soil should made lighter than

is considered best for roses. This is done by the addition of leaf mold, refuse well-rotted hops, or peat moss, or some other form of peat. My attention was once drawn to a failure in adiantum growing when rose soil exclusively was used in which to grow them. Knowledge as to the positive cause of the failure is not in our possession. It was believed, however, by those interested that it was either the potash or the lime in the wood ashes which was mixed in the rose soil used that caused the plants to droop and in some cases die outright. The plants were lifted in order to save them, if I am not mistaken, and replanted in a lighter compost as above indicated, wherein they are now growing and flourishing to the gratification of the owner. E. L.

Cleveland.

SIGNS OF REVIVAL IN BUSINESS.—GLADIOLUS AND ASTER CROPS AT AN END.—HOUSING CARNATIONS.—CLUB CANDIDATES.

There are some symptoms of revival in the quickening pulse of trade and the week just past was quite busy for this season of the year, possibly owing to the great change for the better in the temperature. People are also returning to the city after the summer's outing, all of which helps a little.

Gladioli and asters are pretty nearly things of the past for this season, only a few coming in now, and they not very good. Carnations, which have been poor owing to the extreme heat, are now of better quality. The early birds among the growers have been improving the opportunity offered by late heavy showers and cool, cloudy days to house at least a part of their stock. Some, indeed, were taken in during the hot spell and where this has been done the plants show the effects quite noticeably.

Lilium lancifolium album is over for the season, while the rose colored one is just about through. They came in well for many things and will be missed. Prices on standard flowers do not vary from earlier quotations. Roses in good quality run about $3 per hundred, carnations about $1, asters, according to quality, from almost nothing to $3 or even $4 per hundred.

A. Graham & Son's new addition is progressing. They are building two houses each 23x125 feet, with a lean-to, running across the east end of the houses, 11x50 feet. The heating will be done by steam from a new boiler house, which is of brick, 25x50 feet. The houses will be of modern style, of cypress throughout, on red cedar posts. They ought to last.

The nomination of officers of the Florists' Club took place September 12, and the election occurs at the next regular meeting. E. H. Cushman and A. Graham are the candidates for presidential honors this time. A.

News Notes.

PEKIN, ILL.—Geo. A. Kuhl is making an Eastern trip and will be away about three weeks

NEW BRITAIN, CONN.—Frank Dietz has left the employ of J. A. Traut to embark in business for himself.

PRAIRIE DU CHIEN, WIS.—Robert Gugler has embarked in business here with one greenhouse.

HARTFORD, CONN.—McClunie's store was burglarized September 4 and $25 worth of property was taken.

SACO, ME.—Alonzo Hill is offering ten per cent to his creditors in settlement of their claims.

LOUISVILLE, KY.—Nanz & Neuner have sued Tom Anderson, a well known young man, for a flower bill of $91.

PROVIDENCE, R. I.—Fairbrother & Wood have discontinued their branch store at 415 Westminster street.

CLINTON, IOWA.—Willis Hansen, who has been employed in the Lyons greenhouses has gone to Monterey, Mexico.

WAUSAU, WIS.—Alfred Leubner has sold his business to M. Philips, who will arrive from Indiana November 15, to take charge.

DULUTH, MINN.—The flower show held the first week in September was very successful. The attendance was large, and 168 premiums were awarded for exhibits.

MIAMI, FLA.—Fred. Dickinson is making a number of improvements at his establishment. He forsees a prosperous season for southern florists

BRIGHTON, O.—J. D. Imlay, the florist, entertained and dined the Muskingum County Horticultural Society August 31. Prof. A. D. Selby read a paper on "Cucumber, Melon and Tomato Diseases and their Prevention."

CHESTER, PA.—Chas. Buzby is making substantial changes in his place of business. The office has been raised to the level of the sidewalk and the greenhouses are being enlarged to accommodate increased trade.

MEADVILLE, PA.—The annual flower show at the Central Presbyterian church, August 25, was one of the best on record. The exhibits were numerous but were largely of an amateur character although August Kruger and the Oakwood Rose Gardens were well represented.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—Experienced rose and carnation grower wants situation by Oct. 1st; single; references; state wages. Address
J M. care American Florist.

SITUATION WANTED—By young man for general greenhouse work; several years experience; sober and reliable; references. Address
FLORIST, Gen'l Delivery, Davenport, Iowa.

SITUATION WANTED—By lady of 24 in store or wholesale house. Is a first-class design worker, competent, can furnish good references. Please state amount of salary paid. Address
A S, care American Florist.

SITUATION WANTED—By a thoroughly reliable grower, either private or commercial; capable of taking full charge. Only first-class position desired; best of references; correspondence solicited. Address
70 So. Main St., Sharon, Pa.

SITUATION WANTED—As foreman for a large commercial place. Thoroughly experienced in growing roses and carnations for the wholesale trade; single, 32, (Ohio preferred); salary $40 per month. Address GROWER, care American Florist.

SITUATION WANTED—By a man, 23 years old. Six years experience in large establishment; sober and reliable. Address W F,
Care GARFIELD PARK FLORAL CO.,
1688 W. Madison St., Chicago.

SITUATION WANTED—By a good florist, German, 30 years old, married; grower of roses, carnations, 'mums, etc.; first-class designer. Position, private or good commercial, or in a store; good salesman. Best references. Address
CR. WITTMER, Box 56, Frankfort, Ky.

SITUATION WANTED—By experienced gardener and florist; married; thoroughly experienced in growing roses, Am. Beauty specially; also carnations, 'mums, violets, palms, any kind of fruit; commercial or private place; best references. Address
J. PANLUS, Shousstown, Allegheny Co., Pa.

WANTED—Single man capable of growing roses, carnations and 'mums. Steady place
C. L. BRUNSON, Paducah, Ky.

WANTED—By first of October a German florist; one who is able and competent to work; wages $20 per month and board. Address
B Z B, care American Florist.

WANTED—A good man for palms, ferns, orchids and general greenhouse work; must be competent References required. Address
H. F HALLE, 548 W. Madison St., Chicago, Ills.

WANTED—Young man as assistant in retail florist store; must have a general knowledge of the florist business. Address with references.
H. F. HALLE, 548 W. Madison St., Chicago.

WANTED—Florist who is capable of growing roses, carnations and 'mums; must be first-class and single; state wages wanted with room and board
NICHOLAS AMOS, Crestline, O.

WANTED—Experienced lady for retail florist store, also a man for general greenhouse work; references required. VOLK & STEWART,
472 Milwaukee St., Milwaukee, Wis.

WANTED—At once, a man used to roses and carnations, fire steam boilers and do general work. State experience; wages $36 per month without board. Address WM. KIRKHAM, Maywood, Ill.

WANTED—A first-class rose and carnation grower to take charge of my six greenhouses, must be a worker and single; state wages wanted with board. Address JOHN L. WYLAND, DeHaven, Pa.

WANTED—Assistant foreman who is capable of growing roses, carnations and general greenhouse stock. Wages $40 per month and board. Steady place. Address M I, care American Florist.

WANTED AT ONCE—A good all-round man; must understand growing palms, ferns and pot plants. Only sober, reliable man need apply; state wages. Address L. G. PFUNDER,
427 Washington St., Portland, Ore.

WANTED AT ONCE—Good man to handle hose and general greenhouse work. Good place for the right man. Must be sober. Address with references, etc. C. H. FREY,
1131 O St., Lincoln, Neb.

WANTED—Florist who is capable of growing roses carnations and general greenhouse stock. Wages, with board, $20 per month. Steady place. Reference from last place required. Apply to
O. G. JOHNSON, Kingston, Ontario, Canada.

WANTED—A thoroughly good man for general greenhouse work; potting, propsgating, packing, labeling, etc; Must be a fair writer and well up in plant values. A good chance for a practical florist with some experience, who desires to come South permanently for his health. Fair wages, good climate and neighborhood.
REASONER BROS., Oneco, Fla.

FOR SALE—Four greenhouses, nearly new. Good retail stand. A. CLAUS, Springfield, Ill.

FOR RENT—Two greenhouses to rent to a sober and reliable married man. Address
CORNELIA A. WEBB,
Parkersville, Chester Co., Pa.

FOR SALE—On account of poor health, one of the best places in Northwestern Ohio; houses new and stocked throughout; will stand investigation. Address BARGAIN, care American Florist.

FOR SALE OR RENT—Good retail stand, 5000 feet of glass (new), has never paid less than $1500 per year net. Must buy stock. Reason for quitting, failing health Address ILL, care Am. Florist.

FOR SALE—Three greenhouses; 3,700 feet of glass with good office; city water, telephone and all modern improvements found in an up-to-date place; immediate possession given. Address
H. D. CALDWELL & CO., Paris, Ill.

FOR RENT—To reliable party, 11 greenhouses, 16,000 ft. glass, newly rebuilt last year; also store, 7-room house and barn. Business established 15 years. Finest location in Chicago. Or will sell greenhouses separate. Cause, poor health. Address
GARFIELD PARK FLORAL CO.,
Mrs. Decker, Prop. 1688 W. Madison St., Chicago.

FOR SALE!

Three greenhouses with fine office and retail trade in cut flowers. Houses all new; two lots 72x132, in best residence part of city of 5000. Nice transient trade. Houses stocked with best roses, carnations, etc. Must sell on account of other business. Will sell at a big bargain for cash, or part cash, balance to suit. Investigate. Address
H. R. WINN, Martinsville, Ind.

FOR RENT

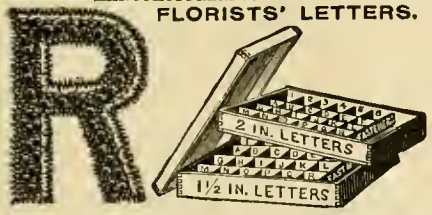
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Tell them where you saw the ad.

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Block Letters, 1 ½ or 2-inch size, per 100, $3.00.
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Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

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Wholesale Flower Markets

CINCINNATI, Sept. 15.

Roses, Brides, Bridesmaids	2 00@ 3.00
" Meteors	3.00
" Perles	2.00@ 3.00
Carnations	.75@1 10
Tuberose	3.80
Lily of the valley	4 00
Smilax	10.00@12.50
Adiantum	1.00
Asparagus	50.00
Asters	.75@ 1.00
Common ferns	.15

ST. LOUIS, Sept. 15.

Roses, Beauties	3 00@15 00
" Meteors	2.00@ 5.00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	2.00@ 3.00
" Kaiserins	2.00@ 6.00
Carnations	1.00@ 1 50
Asters	1.00@ 1 50
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@75.00
Gladioli	3.00
Tuberose stalks, single and double	3 00

MILWAUKEE, Sept. 15.

Roses, Beauties	5 00@20.00
" Brides, Bridesmaids	2 00@ 3.00
" Perles	2 00@ 3.00
" Meteors	2 00@ 5 00
" Kaserins	3.00@ 5.00
Carnations	.75@ 1.00
Gladioli	1.00@ 3.00
Smilax	10 00@15 00
Adiantum	.75@ 1.00
Common ferns	.20
Asparagus	50.00
Asters	.50@ 1.00

BUFFALO, Sept. 15.

Roses, Beauties	5.00@20 00
" Brides, Bridesmaids	2.00@ 6 00
" Meteors	2.00@ 6.00
" Perles, Niphetos	1.00@ 3 00
" Kaiserins	2.00@ 6.00
Carnations, ordinary	.50@ 1.00
" fancies	1.00@ 2.00
Lily of the valley	4 00@ 5.00
Smilax	10 00@15.00
Album rossum lilies	5 00@ 6.00
Asters	.50@ 1 00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Gladioli	1.50@ 3 00
Hardy Ferns, per M, $1.50	
Tuberoses	2.50@ 3.00

LOUISVILLE, Sept. 15.

Roses, Beauties, per dozen	.75@1 50
" Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" Kaiserins	2.00@ 4 00
" Perles	1.50@ 2.00
Carnations, fancy	1.25@ 1.50
" common	1.00
Mignonettes	.25
Smilax, per dozen	1.25@ 2.00
Adiantum	.75
Asparagus, per string	.50
Dagger ferns, per M, $1.00	
Fancy " " 1.50	
Asters	1.00@ 1.25

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JOHN G. ESLER, - Sec'y F. H. A.,
SADDLE RIVER, N. J.

GIVE US A TRIAL. WE CAN PLEASE YOU.



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Application Blanks and Prospectus Ready....
Write now. Delays are dangerous.
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GALAX LEAVES,

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ILLINOIS CUT FLOWER CO.

J. B. DEAMUD

51-53 WABASH AVE.

CHICAGO

PRICE LIST

	Per 100
Brides, Bridesmaids, Meteors	$2 to $3
Perles	$2
Carnations	50c to $1
Valley	$4 to $5
Tuberose Spikes	$5 to $6
Asters	50c to 75c
Asters, fancy	$1 to $1.50
Hydrangeas, large	$5
Hydrangeas, fancy	$6
Asparagus, per string, 40c to 50c	
Smilax	$8 to $10
Common Ferns, per 1000, $1.50	20c
Adiantums	50c

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SUCCESSORS TO

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Wholesale Growers of CUT FLOWERS

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Headquarters For American Beauties. CHICAGO

KENNICOTT BROS. CO.

WHOLESALE CUT FLOWERS AND FLORISTS SUPPLIES.

WIRE WORK A SPECIALTY. 88 WABASH AVE. CHICAGO.

V. M. & W.

Wholesale Florists

47 Wabash Avenue, CHICAGO.

E. C. AMLING

Wholesale Cut Flowers

51 Wabash Avenue,

W. S. HEFFRON, Mgr. CHICAGO.

Wholesale Flower Markets

CHICAGO, Sept. 16.

Roses, Beauties per doz.	.50@3.00
" Brides	2.00@ 4.00
" Kaiserins	2.00@ 5.00
" Bridesmaids	2.00@ 4.00
" Perles	1.00@ 3.00
" Meteors	2.00@ 4.00
Carnations	.75@ 1.50
Asters, common	.50@ .75
" fancy	1.00@ 2.50
Lily of the valley	4.00@ 5.00
Gladioli	2.00@ 3.00
Adiantum	.50
Common ferns	.20
Smilax	10.00
Asparagus	30.00@50.00
Tuberose spikes	3.00@ 5.00

There are buyers for all kinds of stock advertised in the American Florist.

Bassett & Washburn

88 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of Cut Flowers

GREENHOUSES: HINSDALE, ILL.

A. L. RANDALL

Wholesale Florist

Don't Forget that we are at 4 Washington St., Chicago.

Write for special quotations on large orders.

Reinberg Bros.

Wholesale Growers of CUT FLOWERS

600,000 FEET OF GLASS!

We can fill all orders on short notice with all leading varieties of Roses and Carnations.
We ARE Headquarters for Fine AMERICAN BEAUTIES. Give us a trial and convince yourself.

51 Wabash Avenue, CHICAGO.

C. A. KUEHN,

Wholesale Florist,

1122 PINE STREET,

ST. LOUIS, MO.

A complete line of Wire Designs.

A. G. PRINCE & CO.

Wholesale Cut Flowers

AND FLORISTS' SUPPLIES.

Agents for the Hinsdale Rose Co. Special attention paid to shipping orders.

88 & 90 Wabash Avenue,

Telephone Main 3208. CHICAGO.

Lynch WHOLESALE FLORIST.

19-21 E. RANDOLPH ST. CHICAGO

ST. LOUIS CUT FLOWER CO.

Wholesale Florists

E. H. MICHEL

1620 Olive St.

ST. LOUIS, MO.

C. W. WORS

2740 Olive Street, ST. LOUIS, MO.

FLOWERS at WHOLESALE....

.....ROSES, and a full line

Headquarters for the South West.....

WHOLESALE GROWER OF ROSES. DEALER IN CUT FLOWERS.

J. A. BUDLONG,

37-39 Randolph Street. CHICAGO, ILL.

CINCINNATI CUT FLOWER CO.

SUCCESSORS TO

H. L. SUNDERBRUCH CO.

Wholesale Commission Florists

4th and Walnut Sts., CINCINNATI, OHIO

Consignments Solicited. Special Attention Given to Shipping Orders.

GEORGE M. MOSS,

Wholesale Florist,

No. 30 So. 17th Street, - PHILADELPHIA,

Opened Sept. 1st.

Ten years' experience. Consignments of first-class Roses, Carnations, Violets and other flowers solicited. Every up-to-date facility for handling stock.

Long Distance 'Phone 1-41-26 D.

S. B. WINTER,

(Successor to WINTER & GLOVER,)

21 Randolph St., Chicago.

HIGH GRADE CUT FLOWERS,

PACKED RIGHT,

so they will reach you in just as good condition as they reach us.

WIRE DESIGNS: A Full Line. Write us for our Illustrated Catalogue.

HOLTON & HUNKEL CO.

SUCCESSORS TO

The Wisconsin Flower Exchange.

Fresh Cut Flowers, Florists' Supplies

Manufacturers of WIRE DESIGNS

Consignments Solicited. Phone Main 874

457 Milwaukee St., MILWAUKEE.

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...LOUISVILLE...

Florists' Supply and Exchange

Wholesale Florists and dealers in Florists' Supplies

Special facilities for shipping south. Unequalled returns for good stock. Open night and day.

520 W. Jefferson St., - LOUISVILLE, KY.

Now Ready!

The American Florist Company's Directory of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Price $2.00. In Flexible Leather Binding, $3.00. Fully revised to date with upwards of 3,000 New Names

American Florist Company, 324 Dearborn St., CHICAGO, ILL.

Mention the AMERICAN FLORIST when corresponding with an advertiser.

MacDonald & McManus

... SUPPLY ... ORCHIDS EVERY DAY

ONLY HOUSE IN NEW YORK HANDLING
EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

TELEPHONE 2778 38TH STREET

50 West 30th Street, NEW YORK CITY.

Choice Carnations Choice Roses

Traendly & Schenck

NEW YORK CITY

38 W. 28th Street Cut Flower Exchange

M. A. HART,

Commission DEALER IN Cut Flowers,

44 WEST 29TH STREET,
NEW YORK CITY.
THE BEST MARKET IN NEW YORK.
'Phone 1307 38th St.

CITY HALL CUT FLOWER MARKET

WELCH BROS., Proprietors.
The New England Headquarters for the best grade of flowers at all seasons of the year ...

9 Chapman Place, 15 Province Street.
BOSTON, = MASS.

THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,
112 and 114 West 24th Street,

Telephone 733—18th. NEW YORK.
CONSIGNMENTS SOLICITED.
Special Attention Given to Shipping Orders.
Mention American Florist.

JOHN YOUNG,

ROSES, CARNATIONS, VALLEY
and all other choice cut flower stock.
51 W. 28th Street, NEW YORK.
Price list on application.

Wholesale Flower Markets

NEW YORK, Sept. 14.

Roses, Beauties	5.00@20.00
" Bridesmaids, Brides	.50@ 3.00
" Morgans, Perles	.50@ 1.00
" Meteors, Kaiserins	1.00@ 4.00
Carnations	.50@ 1.25
Lily of the valley	1.00@ 2.00
Smilax	8.00@10.00
Asparagus	40.00@50.00
Cattleyas	40.00@50.00
Asters	.05@ 1.50
Gladioli	.50
Adiantum	.50@ .75

BOSTON, Sept. 14.

Roses, Beauties	5.00@25.00
" Kaiserins	5.00@ 8.00
" Brides, Bridesmaids, Meteors	1.00@ 6.00
Carnations	.75@ 1.50
Lily of the valley	1.00@ 3.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00
Asters, common	.25@ .50
" Semple	.75@ 1.00

PHILADELPHIA, Sept. 14.

Roses, Beauties	3.00@12.00
" Brides, Bridesmaids, Meteors	2.00@ 3.00
" Kaiserins	2.00@ 6.00
Carnations	.50
Lily of the valley	3.00@ 5.00
Japanese Illes	4.00@ 6.00
Cattleyas	35.00@40.00
Smilax	12.50@15.00
Asparagus	25.00@35.00
Adiantum	1.00
Asters	.50@ 1.00
Tuberoses	2.00@ 3.00

SAMUEL S. PENNOCK

WHOLESALE FLORIST.

1612-14-16 LUDLOW ST.
PHILADELPHIA, PA.

FINE VALLEY ALWAYS ON HAND.

Asparagus Plumosus Nanus.

Strings 10 to 12 feet long,
50 CENTS.
W. H. ELLIOTT, Brighton, Mass.

Now They're Cheap!!

FLOWERS, ALL KINDS.
PLENTY OF THEM AT
J. K. ALLEN'S 57 WEST 28th STREET, NEW YORK.
TELEPHONE 382 38th St.

GALVIN & CO.

Wholesale Florists
AND DEALERS IN ALL
FLORISTS' SUPPLIES,
4 Ordway Place, BOSTON, MASS.
Cut Flower Consignments Solicited. Best market.

JAMES M. KING

Commission Dealer in
CUT FLOWERS.
Good Money for your Flowers.
Good Flowers for your Money.
49 WEST 29TH ST., NEW YORK.
TELEPHONE 1675 38th St.

GEORGE A. SUTHERLAND,

Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

Wholesale Florists
ALWAYS ON HAND.
CARNATIONS,
BRIDESMAIDS,
BRIDES.

JOBBERS IN
FLORIST'S SUPPLIES.
FLORISTS' VASES.
Horticultural Auctioneers.
84 HAWLEY STREET, - BOSTON.

One Good Flower

is worth fifty poor ones
but is harder to find in
summer.

Give us timely notice and
we will do the best we can

John I. Raynor

49 WEST 28th STREET
NEW YORK CITY.

THOS. YOUNG, JR.

Wholesale Florist

43 West 28th Street, New York.

WALTER F. SHERIDAN,

WHOLESALE
FLORIST,
39 West 28th Street, NEW YORK.
Roses shipped to all points. Price list on application.

ROSES LILIES

JULIUS LANG

53 WEST 30th STREET
NEW YORK
CARNATIONS SMILAX

Edward C. Horan,

34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST

Careful Shipping to all parts of the country.
Price list on application.

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Wholesale Florist,

40 So. 16th St., PHILADELPHIA.
Consignments Solicited. Special attention given to shipping orders
Long Distance Telephone 5008 A.

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404-412 E. 34th St. Near Ferry.
Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

Ford Bros...

Wholesale Florists
111 West 30th Street, NEW YORK.
Consignments Solicited. Telephone, 260 38th St.

FRANK MILLANG,
CUT FLOWERS,

WHOLESALE COMMISSION,
408 E. 34th Street,
Cut Flower Exchange. NEW YORK.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

H. CHEESMAN, traveler for the Braslan Seed Growers Co., has returned from his California trip.

ALBANY, N. Y.—The firm of Price & Reed was dissolved September 1, the business being continued by George H. Price.

BISMARCK, N. D.—O. H. Will is rebuilding his seed store and building a new residence.

GEORGE GIBBS, of Orcas Island, Washington, has received an order from Holland for white iris (I. Anglica) seed.

H. W. BUCKBEE, Rockford, Ill., was a Chicago visitor on Tuesday; also J. Sproule, San Francisco, eastward bound

E. V. HALLOCK returned last week from a ten week's trip through Scotland, England and France. His family remain for the winter.

LOUISVILLE, KY.—C. F. Wood and W. P. Stubbs, formerly of the firm of T. W. Wood & Sons, Richmond, Va., have opened a store at the corner of Brook and Jefferson streets, where they will carry on a general seed and bulb business.

Government Seed Distribution for 1899.

Printed proposals were sent out by the the Secretary of Agriculture under date of August 30. We give below the list, which is accompanied by a circular showing the standards of purity and germination required. A similar circular was reprinted in our issue of May 21, page 1270.

Furthermore, it is the intention to have all the work of putting up the seeds and distribution thereof, done in the city of Washington, D. C., and the contractor will be required to furnish a safe and convenient building for carrying on the work in accordance therewith.

All bids must be received at the Department not later than the fifteenth day of September, 1898. The very short time of fifteen days given to prepare estimates for such an extensive contract, and to secure economical and suitable buildings in Washington would make it difficult for those not supplied with advance information on these lines, to bid intelligently and with any prospect of securing the award.

VEGETABLE SEEDS.

	Packets to pound
ONION.	
5,200 pounds Large Red Wethersfield	96
5,200 pounds Yellow Globe Danvers	96
5,200 pounds Southport Red Globe	96
5,200 pounds Prize Taker	96
5,200 pounds Yellow Strasburg	96
Total packets	2,496,000
CUCUMBER.	
2,500 pounds Long Green	80
2,500 pounds White Spine	80
2,500 pounds Early Green Prolific	80
2,500 pounds Short Green	80
Total packets	800,000
LETTUCE.	
4,000 pounds B. S. Satisfaction	128
4,000 pounds Hanson	128
4,000 pounds Curled Simpson	128
3,500 pounds Salamander	128
3,500 pounds Prize Head	128
Total packets	2,432,000
MELON (MUSK).	
2,200 pounds Hackensack	80
2,200 pounds Osage	80
2,200 pounds Banquet	80
2,200 pounds Long Yellow Cantaloupe	80
2,200 pounds Netted Gem	80
Total packets	880,000
MELON (WATER).	
2,200 pounds Rattlesnake	80
2,200 pounds Mountain Sweet	80
2,200 pounds Florida Favorite	80
2,200 pounds Phinney's Early	80
2,200 pounds Seminole	80
Total packets	880,000
BEET.	
4,500 pounds Egyptian	64
4,500 pounds Eclipse	64
4,500 pounds Bastian's Red Turnip	64
4,500 pounds Dewing's Blood Turnip	64
4,000 pounds Early Blood Turnip	64
4,000 pounds Long Dark Blood	64
Total packets	1,664,000
RADISH.	
7,800 pounds Scarlet Turnip	64
7,800 pounds Early Dark Red	64
7,800 pounds Improved Chartier	64
7,800 pounds Long White	64
7,800 pounds French Breakfast	64
Total packets	2,496,000
BEAN.	Packets to bushel.
750 bushels Extra Early Refugee (1,000 to 1)	160
750 bushels Early Mohawk	160
750 bushels Golden-Eyed Wax	160
750 bushels Black Wax	160
Total packets	480,000
PEA.	
750 bushels American Wonder	160
750 bushels Horsford's Market Garden	160
750 bushels Abundance	160
750 bushels Pride of the Market	160
Total packets	480,000
SWEET CORN.	
600 bushels Early Cory	160
600 bushels Early Minnesota	160
600 bushels Stowell's Evergreen	160
600 bushels Crosby's Early	160
600 bushels Black Mexican	160
Total packets	480,000
Total number of packets of all vegetable seeds	13,088,000

FIELD AND LAWN GRASS SEEDS.

	Packets to pound.
TOBACCO.	
60 pounds White Burley	304
60 pounds Ohio Seed Leaf	304
60 pounds Tennessee Red	304
60 pounds Zimmer's Spanish	304
60 pounds Yellow Pryor	304
Total packets	91,200
COTTON.	Quarts (in cloth bags) to bushel
145 bushels Peterkin	32
145 bushels Hawkin's Prolific	32
145 bushels Drake's Cluster	32
145 bushels Jones' Improved	32
145 bushels Texas Storm Proof	32
Total quarts	23,200
CORN (FIELD).	
175 bushels Blount's Prolific	32
175 bushels Clarrige	32
Total quarts	11,200
GRASS, FOR LAWNS.	8 ounces in a packet.
12,000 pounds Kentucky Blue, fancy, put up in ½ pound papers, each to be inclosed in outside heavy wrapper.	
Total packets	24,000

FLOWER SEEDS.

	Pounds of seed.	Packets of seed to the pound.	Number of packets.
Alyssum maritimum	100	500	50,000
Aquilegia (columbine) varieties	62½	800	50,000
Aster, mixed, China	100	500	50,000
Candytuft, mixed, annual	100	500	50,000
Canna, mixed, large flowering type	390	128	49,920
Dianthus, double, mixed, China	50	1,000	50,000
Gaillardia, mixed	62½	800	50,000
Larkspur (delphinium) mixed	100	500	50,000
Linum grandiflorum, varieties	125	400	50,000
Marigold, mixed	83½	600	50,100
Mignonette, plain	83½	600	50,100
Nasturtium, mixed	250	200	50,000
Pansy, mixed	50	1,000	50,000
Petunia, fine mixed	42	1,200	50,400
Phlox Drummondii, mixed	100	500	50,000
Portulaca, single, mixed	50	1,000	50,000
Stocks, German, ten weeks	50	1,000	50,000
Sweet peas, mixed	782	64	50,048
Sweet William, mixed	100	500	50,000
Zinnia, double, mixed	100	500	50,000
Total pounds and packets	2,781		1,000,568

The seeds named in the above list (flower) are to be American grown.

Made his spare!

Many have taken advantage of my last week's offer and are happy in having made a good trade. It counts at the end of the game. Don't miss this chance of money-saving which I again offer this week; you can buy these later, but not at so low a price for the quality. **TOBACCO STEMS**, fresh and strong, baled and delivered to depots here at **$8.00 per ton**; half ton lots at same rate. **LEAF TOBACCO DUST**, the genuine article (not ground stems) $3.00 per 100 lbs. (10-lb. trial bag 50c). Remit by check, P. O. O., Express M. O., or Reg. Letter. Stamps taken for small amounts.

G. C. WATSON

Bulbs
Raffia
Mushroom Spawn

Juniper and Walnut Sts.
PHILADELPHIA.

ENGLISH
Mushroom Spawn
New Importation just received.



10 lbs. $1.00; 100 lbs. $7.50 f. o. b. Chicago; $7.00 per 100 f. o. b. New York.

Vaughan's Seed Store
CHICAGO.
NEW YORK.

COLD STORAGE **VALLEY** ALWAYS ON HAND.

CASES of 2500 pips, extra quality, $25.00; per 1000, $12.00.
CASES of 3000 pips, good quality, $25.00; pe 1000, $10.00.

CLUCAS & BODDINGTON CO.,
501 & 503 West 13th St., NEW YORK CITY.

Mention the American Florist.

TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

August Rölker & Sons
Supply the Trade
with Choicest Seeds, Bulbs and all Florists' Supplies; many choice Novelties offered for the fall trade. . . .
FOR LISTS ADDRESS
52 Dey Street, NEW YORK.

BURPEE'S
SEEDS
PHILADELPHIA.
Wholesale Price List for Florists and Market Gardeners.

THE AMERICAN FLORIST'S
COLOR CHART
is now accepted as the standard in preparing color descriptions, by many foreign houses as well as in America.
PRICE 15 CENTS POSTPAID.
AMERICAN FLORIST CO., 322 Dearborn St. Chicago

WANT TO BUY FERNS?

Mine is a splendid stock of over 200,000 plants in 2¼-inch pots comprizing 10 most popular kinds, $3.50 per 100; $30.00 per 1000. Fine assortment in 3 and 4-inch pots.

Nephrolepis Bostoniensis, from 3 to 8-inch pots. Nephrolepis Cordata Compacta Nana, the coming fern, from 3 to 6-inch pots. Cocos Weddeliana, large lot, 3-inch pots, fine stock, $12.00 per 100.

VICTOR CARNATIONS, 4000 strong plants from field.....$7.00 per 100
Wm. Scott, strong field plants.. 4.00 per 100

E. W. REDFIELD, Glenside, Pa.

When writing mention American Florist.



CALIFORNIA

Calla Bulbs

Through our Exchange Sales with best Pacific Coast growers of these roots we are able to deliver choice, carefully cured and evenly graded roots at closest growing prices.

	Doz.	100
FIRST SIZE, 1¼ to 1½-in. in diam.....	$.75	$5.50
SELECT, about 1½ to 1¾-in. in diam....	1.25	7.00
EXTRA SELECT, about 2 to 2½-in. diam.	1.50	10.00

ALSO READY:

ROMAN HYACINTHS,
P. W. NARCISSUS GRAND.,
DUTCH HYACINTHS,
TULIPS VON SION,
and a FULL LINE.

VAUGHAN'S SEED STORE,

CHICAGO: 84-86 Randolph St. NEW YORK. 14 Barclay Street.

It is good business policy to mention the American Florist when you write to an advertiser.

THE
Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

The "GARDENERS' CHRONICLE" has been FOR OVER FIFTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, much of the information furnished is of such general and permanent value, that the "GARDENERS' CHRONICLE" is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, $4.20 per year. Remittances to be made payable to H. G. COVE.

OFFICE:—
41 Wellington St., Covent Garden, London, England.

MÖLLER'S
Deutsche Gärtner-Zeitung

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription $3.00 per annum, including postage. Sample copies free.

Ludwig Möller-Erfurt.
(GERMANY)

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CHICAGO

IS A GUARANTEE OF SATISFACTORY QUALITY.....

Manz makes illustrations for this paper.

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The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

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387 Broadway, New York City.
J. D. McBEATH, N. E. P. A.,
5 State Street, Boston, Mass.
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GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs.....

$2.00 Per Year. Sample Copies Free.
Liberal terms to florists who take subscriptions.

THE GARDENING CO. Monon Bldg. CHICAGO.

....AUTUMN 1898....

One Million

Flowering Shrubs; full assortment; all sizes.

Half Million...

Deciduous Trees for street, lawn and avenue planting.

200,000 Vines, Iris, Clematis, Actinedia and other sorts. Correspondence solicited.

THE WM. H. MOON CO.
MORRISVILLE, PA.

HUSSA & CO.

CUSTOMS BROKERS AND FORWARDERS,

66 Beaver St., - NEW YORK.

ESTABLISHED 1872.

All customs matters attended to. Correspondence solicited.

FERNS! FERNS!

100,000 Commercial Ferns in the best varieties out of 2-in. pots, grown in cool houses and well-aired. No better stock offered at double the price; $2.50 per 100, $20.00 per 1000. $50.00 for 3000.

E. HIPPARD, - Youngstown, Ohio.

THE Regan Printing House

NURSERY SEED FLORISTS **CATALOGUES**

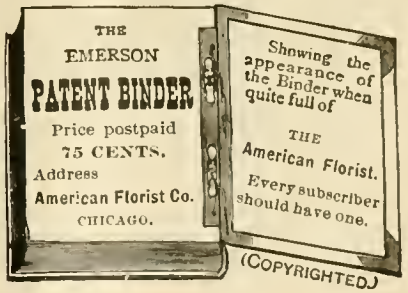
87-91 Plymouth Place, CHICAGO.

ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for the.....

"Horticultural Advertiser"

This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Address

EDITORS OF THE "H. A."
Chilwell Nurseries, - Notts, England



THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

THERE is one section of the United States in which there is no nursery and that is the Hawaiian Islands.

THE Jackson & Perkins Company believes that the outlook for nursery business is brighter than in some years.

THE Dikeman cherry, a recent introduction, is said to be the latest ripening cherry known. It is black, of the Bigarreau type.

ISIDOR BUSH, whose demise at Bushberg, Mo., occurred recently, was the author of a work on grape culture which reached four editions and was translated into five languages.

A. L. BROOKE, president of the American Association of Nurserymen, reports that statistics show a shortage of a million trees in the apple stock and also a large shortage of peach.

ACCORDING to a writer in the *Gardeners' Chronicle*, severe pruning of the Crimson Rambler rose will frequently cause unsatisfactory flowering and it is stated that it is best to prune very lightly or not at all.

THE attention of the United States commissioners to the international conference now in session at Quebec has been called to the restrictions placed by Canada upon the importation of nursery stock and it is hoped that some concession may be the result.

THE Storrs & Harrison Company thinks that there will be a decided improvement in spring trade and hopes there will be for fall. Because of shortage they anticipate an advance in prices on some lines of stock and expect that the end of the spring season will see stocks depleted more than in many years.

American Forestry Association.

The American Forestry Association was in session at Omaha, Neb., September 9 and 10 with a small attendance. In the absence of President Francis H. Appleton, of Boston, ex-Governor R. W. Furnas presided.

There were a number of papers by prominent men and general discussions were indulged in. S. M. Emery, of Montana, presented the forestry situation in a clear light and the topic was further discussed by Dr. Geo. L. Miller, W. R. Adams, of Illinois, and Prof. Lawrence Bruner, of the state university. Governor Furnas read an excellent essay on "Progress and Effects of Forest Growing," relating what had been accomplished in Nebraska during the forty-three years he has resided in the state. E. F. Stephens, Crete, Neb., read a valuable paper on "Tree Planting in Nebraska." E. D. Wheeler, of Kansas, spoke of the possibility of reforesting arid districts and W. T. Little, Oklahoma, discussed the possibility of artificial forests for prairie windbreaks. Mr. Emory spoke of the relations of forestry and experiment stations, and Henry Michelson, Colorado, read a paper on the relations of forestry and irrigation. Prof. Bruner presented a treatise on insects prejudicial to tree growth.

A committee consisting of Hon. J. Sterling Morton, Dr. G. L. Miller and E. F. Stephens was appointed to confer with the irrigation congress with a view to amalgamating the two societies. Henry Michelson, W. T. Little and S. M. Emery were appointed a legislative committee.

Cemetery Superintendents Convene.

The twelfth annual convention of the Association of American Cemetery Superintendents was held at Omaha, Neb., September 13, 14 and 15. The attendance was about one-third less than that at Cincinnati last year. Many of the old eastern war horses were conspicuous by their absence, the distance, as in the case of the Society of American Florists, evidently being too much for them. All things considered, however, it was a creditable assemblage of earnest men. Some absences from the sessions, on account of the superior attractions of the exposition, again point to the unwisdom of selecting for a convention any city in which there are other features of an unusually alluring character.

President Cressy promptly called the meeting to order at 10 a. m. Tuesday. Prayer by the Rev. Le Roy S. Hand was followed by the reception of new members and roll call, address of welcome by Mayor Frank E. Moores, president's address, reports, etc. Papers were read as follows: "Our Association, Its Objects and What Has Been Accomplished," by O. C. Simonds, Chicago; "Why New Cemeteries Should Adopt the Lawn System," by A. W. Hobert, Minneapolis; "What Trees and Shrubs are Suitable for Cemetery Embellishment," by B. Lawson, Wilkesbarre, Pa.; "The Importance of System in Cemetery Management," by H. J. Diering, Wood Lawn, N. Y.; "Cemetery Records," by Frank D. Willis, St. Paul. Other addresses were made by Geo. H. Scott, Rev. S. W. Butler, M. P. Brazill, Prof. G. R. Chatburn, Wm. Stone, Geo. M. Painter, S. W. Rubee and C. A. Baldwin. Charles Nichols, the father of the organization, sent a paper on "The Pleasure I Derive from Seeing Our Work Expand."

The social features of the meeting included visits to the Lininger Art Gallery, local cemeteries, city water works, exposition, etc. It was decided to have the next convention at New Haven, Conn., and the election of officers resulted as follows: Arthur W. Hobert, Minneapolis, president; Wm. Stone, Lynn, Mass., vice-president; Frank Eurich, Detroit, secretary and treasurer.

Grapes Under Glass.

Reference was made recently in these columns to the grape houses at Whitinsville, Mass., under the care of George McWilliam, whose skill in this and other branches of his profession has often been attested by the highest awards of the Massachusetts Horticultural Society.

On a visit to Mr. McWilliam we learned from him that the vines, which so excited the admiration of the garden committee at the time of their visit, are now thirteen years old, having been started from eyes in the spring of 1885, and planted in May of the same year. The border is all inside, the soil about thirty inches deep, composed of turfy loam mixed with charcoal, old plaster, broken bricks and bone and with good drainage beneath.

The loose soil is cleaned off the borders each year and a top-dressing added consisting of a mixture of soil, fine bone and wood ashes. The vines are started about March 1, and at this time the borders are well soaked and a light mulching of spent horse manure is given. As they begin to move the temperature is gradually increased until by the time they come into flower the Hamburgh house stands at about 65° at night and the Muscat house about 70°. Previous to coming into flower the vines are syringed twice daily. While they are flowering syringing is discontinued, but after they are through flowering the syringe is used again sufficiently to wash off the old flowers, but no more.

From the time the vines start to grow until the berries begin to color a little nitrate of soda is given at each watering, not in quantity sufficient to make soft foliage but enough to give strength that the leaves may better withstand the attacks of fungous diseases or insects. Also from the time of thinning until coloring a little manure water from the stable is given at each watering. After the first fruit begins to color the ventilators, which hitherto had been closed tight at night, are left open night and day, a little crack at first and gradually increasing as the fruit ripens.

Floriculture at the Omaha Exposition.

In almost every part of the grounds at the Trans-Mississippi Exposition evidences of the artistic work of the floriculturist is seen. The central point of interest is naturally in and around the big Horticultural building, which is a wonder of beauty with its turrets, groups of statuary, beautiful Renaissance frieze, gay flags and magnificent columns. It resembles a great white bouquet in its varied lines; but of what avail is this great palace without the architect's collaborator, the landscape artist? The interior of this floral paradise is a realm of harmonies and surprises; splendid palms, ferns in vast variety, and luxuriant specimens of flora from almost every clime, while everything the horticulturist, the floriculturist or the pomologist has produced is exhibited with a richness and beauty unparalleled.

The view from the front of the building is delightful, for everywhere the eye rests on the most picturesque setting of lawn and garden, broad expanse of velvety sward, begemmed with parterres in the most brilliant bloom. Stretching to the south of the big building lies a gem of the landscapist's art, a beautiful park, its curving walks encircling large patches of green lawn diversified by gay beds of bright blossoms, and trees and hedges complete the illusion that nature has been for years compiling this random work. Beds of shaded velvet pansies lying in long narrow beds to the north of the building fascinate the eye, and a wide border of round faced petunias in the violet shades, edged with the many colored coleus makes a pleasing finish. There is a profusion of sweet peas in their delicate coloring, and the beds of geraniums put forth their bright petals not ashamed of the more pretentious display made by their sturdy sisters, the cannas, cacti and yuccas.

But it is not alone in this portion of the grounds that the handiwork of the gardener is found. The luxurious tourist who is traversing the broad lagoon in one of those graceful water birds of Venice, the gondola, sees everywhere about him highly colored groupings of landscape art.

On either side of the broad white steps that traverse the terraces the balustrades are topped by picturesque masses of luxuriant vegetation. Great urns are dispersed here and there upon the green sward, holding their effective groups of cannas, caladiums and pansies, while flowering

vines form a lacy green fret work for pedestal and standard. One is apt to forget that the beautiful blue waterway upon which we are so peacefully gliding is also the work of the landscape artist; it is the crowning artifice by which the work of the architect and gardener is glorified, reflecting flowers and palaces in a panorama of the most varied beauty.

Leaving the water's edge we walk toward the peristyle which lies in its long graceful curve at the east end of the grand court. Here we are confronted by the wonderful gardens which nestle at the base of this colonnade. What an inviting whiff greets us, for here are assembled in the most prolific mingling, roses, flowering shrubs of every habit and hue, graceful blossom-burdened spiræas, drooping with their weight of snow, bright foliage plants which vie with the rainbow in shade and tint, gay groups of bright geraniums softened by the white faces of the golden hearted marguerite. Vines climb the great pillars of the peristyle in a delightful tangle of green lattice work, while a haphazard chaos of willows forms a tangled finish that is entrancing. LYNN CURTIS.

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CANNAS—Rambler Roses
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CURRANT Red and white Dutch, Victoria, Lee's Black, No. 1, 2 and 3-year, packet 100, $8.00.
GOOSEBERRY, Downing, Champion, Walworth, White Mountain, red, No. 1, 2 and 3-year, packet 100, $1.50.
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An assortment of TWENTY VARIETIES (fifty each), purchasers' selection from Shrubs quoted in trade list at $4.00 to $7.00 per 100, will be furnished for $50.00, F. O. B. when cash accompanies order, otherwise packing charged at cost.

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An assortment of TWENTY VARIETIES (fifty each), purchasers' selection from Shrubs quoted in trade list at $7.00 to $10.00 per 100, will be furnished for $75.00, F. O. B. when cash accompanies order, otherwise packing charged at cost.

100,000 California Privet, 1 year, 2 years and 3 years.
5,000 Deutzia Gracilis, 12 to 15 inches, very fine for florists to force, $6.00 per 100; $50 00 per 1000.
10,000 Hydrangea Paniculata, different sizes.

Very Low Prices on Vines.

AMPELOPSIS VEITCHII, 1 year	$35.00 per 1000.
" " 2 years	50.00 per 1000.
ACTINIDIA ARGUTA, or Polygama, 1 year	8.00 per 100.
" " " 2 years	16.00 per 100.
CLEMATIS PANICULATA, from 3-inch pots	35.00 per 1000.
" " from 4 inch pots	60.00 per 1000.
" " open ground, 2 years, very strong	75.00 per 1000.
ENGLISH IVY, 1 year, open ground, strong	50.00 per 1000.
" " 2 years, very long vines	60 00 per 1000.
HONEYSUCKLES in variety, strong	60.00 per 1000.
WICHURAIANA ROSES, 1 year	48.00 per 1000.
" " very strong, 2 years	75.00 per 1000.

DECIDUOUS TREES.
An immense stock of Norway Sugar, Silver and Sycamore Maples, Purple-leaved Beech, Cut-leaved Birch, Catalpas, Elms, Liudens, Horsechestnuts, Magnolias, Oaks and Willows.

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We are specially prepared to supply florists with Evergreens suitable for winter decorations, either for window boxes, tubs or pots. We recommend the dwarf varieties of Arborvitæs and Retinosporas where a small or medium growth only is desired, and tall-growing Arborvitæs where larger sizes are preferable; either size plants are of perfect form and well furnished to the base. We solicit your orders for these.
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A "has been" or a "would be" is out of it.

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The New WHITE Blackberry
"ICEBERG"
I have 100,000 of them. Write for price..... F. L. ATKINS, Orange, N. J.

THERE ARE BUYERS
For all kinds of good stock advertised in
THE AMERICAN FLORIST.

Rochester, N. Y.

Trade has improved materially since the beginning of September and the change in the temperature is driving fashionable people home from their summer residences so that the demand is increasing daily. There is an abundance of flowers in the market, with exception of carnations and roses, but some of the growers will soon begin to cut their first crop from young stock.

Walter Salmon, of Brighton, who grows the best Brides and Maids around here, has been sending good stock to market for the last week or so and his cut is increasing rapidly. The stems are not always as long as may be desired, but he promises that in a few weeks the stems as well as the flowers will be as good as the very best. Three large houses are devoted to roses in this establishment and the plants are doing splendidly.

The chrysanthemums at C. M. W. Suhr's are pronounced the finest in town and he expects to be in with Bergmann before anybody else. All his chrysanthemums are doing exceedingly well and he grows many thousands of them. Quite a variety of stock is grown on the place, and Lilium auratum and L. speciosum has been in bloom there every day since early in May.

At the Kimball Greenhouses, where Geo. Savage is in charge, the orchids are beginning to make a grand show; Cattleya Bowringeana is splendidly in bloom while C. labiata is out in great variety. Specimens of this species are not so very large, but the growths are remarkably strong this year and from four to six leads show on every plant. Lælia marginata in baskets are suspended from the roof in another house and, dwarf as the plants are, they form fine subjects when flowered so profusely as we see them here. Lælia anceps in variety is sending out its long, slender stems and most of the plants have grown into large specimens under the skillful treatment they receive; three or four pure white varieties can be seen here regularly every year. Oncidium varicosum are not all out yet, but they are very beautiful and the size of the bulbs is wonderful. Dendrobium Phalænopsis Schrœderii does equally well here and blooms well and freely. Some of the flowers are very delicately colored while others are extra dark and bright. Dendrobium formosum giganteum is also in evidence and Odontoglossum grande and the Insleyi section are producing grand effects in the little house at the entrance. In spite of all precautions the temperature in the odontoglossum house could not be kept low enough during the hot weather and some of the plants suffered severely, but are now fast recovering. A good many other things are in bloom at present, for the collection of orchids here is one of the largest. I purposely mention only the above because all of these are especially desirable for cutting during the fall months. J. B. K.

Tarkio, Mo.

In the afternoon of September 5, this vicinity was visited by the most severe hail storm on record. Orchards were destroyed, and the pellets were of such size that cattle, hogs and horses were here and there killed in the fields. F. P. Zimmerman lost 900 feet of glass and much injury was done to his stock, while a fine field of celery was completely destroyed, so that his loss was considerable. He will replace the glass at once.

IMPORTANT NOTICE TO EVERYBODY IN THE TRADE

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And many hundreds of Decorative, Ornamental and Flowering Plants.

PROPERTY OF JULIUS ROEHRS, CARLTON HILL, N. J.

The whole to be sold on Mr. Roehr's place in the greenhouses on

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	100	1000	3000
Kenlia Belmoreana	$1.00	$6.50	$15.00
" Forsteriana	1.00	6.50	15.00

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50 000 Plants in 2½-inch pots, $5 00 per 100, express: 24 for $1.50 by mail. Specimens for 8-in. pots, $6 00 per 12.

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DREER'S SPECIAL OFFER OF PALMS

Areca Lutescens.

We offer a fine lot of clean thrifty plants of this graceful and popular variety.

Inch pots		Height	Per doz	Per 100
3			$ 1.25	$ 10.00
6	Very bushy	28 to 30 ins.	12.00	100.00
			Each	Per doz.
7	"	32 to 36 "	1.50	18.00
8	"	36 to 42 "	2.50	30.00
8	"	42 to 48 "	3.00	36.00
10	Heavy single plants	48 to 54 "	6.00	
12	" " "	60 to 72 "	7.50	

Cocos Weddeliana.

Our stock of this useful palm is unusually fine.

		Per Doz.	Per 100	Per 1000
2¼-in. pots,	4 to 5 ins. high	$1.25	$10.00	$ 90.00
3 "	8 to 10 "	2.00	15.00	140.00
4 "	12 to 15 "	4.50	35.00	

Kentias.

Our stock of Kentias occupies over one and a half acres of glass, the largest block of these most useful palms in the world. Medium sizes are scarce this season, and prices are advancing.

Kentia Belmoreana.

Inch Pots	Leaves	Height	Per doz.	Per 100	Per 1000
3	4 to 5	10 to 12 ins.	$ 3.00	$25.00	$225.00
4	5 to 6	15 to 18 "	6.00	50.00	450.00
			Each	Doz.	
5	5 to 6	22 to 24 "	1.00	12.00	
6	6	26 to 28 "	1.50	18.00	
8	6	30 to 36 "	2.50	30.00	
8	6	36 to 42 "	3.00	36.00	
9	6 to 7	42 to 48 "	4.00		
9	6 to 7	48 "	5.00		
9	6 to 7	48 to 54 "	6.00		
9	6 to 7	54 "	7.50		
10	6 to 7	54 "	10.00		
10	6 to 7	60 "	12.50		
10	6 to 7	60 to 72 "	15.00		
12	7 to 8	7 to 8 feet	35.00 to 50.00		

Kentia Belmoreana. Made-up Plants.

This class of stock is very fine and has met with much favor with many of our best and most critical eastern trade.

5-inch pots, center plant about 24 inches high, with 3 smaller plants around it, $1.25 each.



7-inch pots, center plant about 32 inches high, with 3 smaller plants around it, $2.50 each.

8-inch pots, 4 plants in a pot, center plant about 30 inches high, others about 18 inches high, $3.50 each.

9-inch pots, 4 plants in a pot, center plant about 36 inches high, others about 20 inches high, $5.00 each.

10-inch pots, 4 plants in a pot, center plant 3½ to 4 feet high, others about 36 inches, $7.50 each.

10-inch pots, 4 plants in a pot, center plant about 4 feet high, others about 2½ feet, very heavy, $10.00 each.

11-inch pots, 4 plants in a pot, center plant 4½ to 5 feet high, others about 3 feet, grand specimens, $12.50 each.

Kentia Forsteriana.

In. pots	Leaves	Height	Per doz.	Per 100
3	3 to 4	12 ins.	$ 2.50	$20.00
4	4 to 5	15 to 18 ins.	5.00	40.00
5	5	18 to 20 "	9.00	75.00
			Each	Doz.
6	5	24 to 28 "	1.00	12.00
6	5 to 6	30 "	1.50	18.00
7	6	36 "	2.00	24.00
8	6	42 "	3.00	
8	6	42 to 48 "	3.50	
9	6	48 to 52 "	6.00	
9	6	52 to 60 "	7.50	
10	6	72 "	10.00	
12	7	72 to 84 "	25.00	
14 (in tubs)	7	7 to 8 feet	35.00 to 50.00	
16 "	7	10 "	75.00 to 100.00	

Kentia Forsteriana. Made-up Plants.

7-inch pots, 4 plants in a pot, center plant 36 to 42 inches high, others about 18 inches, $2.50 each.

8 inch pots, 3 plants about 42 inches high, $3.00 each.

9-inch pots, 3 plants from 42 to 48 inches high, $4.00 each.

9-inch pots, 3 plants 54 inches high, $5 00 each.

10-inch pots, 3 and 4 plants in a pot, center plant 60 inches high, $7.50 each.

10-inch pots, 4 plants in a pot, center plant 5 feet high, others 2 feet high, $10.00 each.

12-inch pots, 5 plants in a pot, center plant 6 feet high, others 2½ feet high, $25.00 each.

Latania Borbonica.

Our stock of Latanias is in excellent condition, especially the 2, 3 and 4-inch pots.

2-inch pots, 3 to 4 leaves, 60c per doz.; $4.00 per 100; $35.00 per 1000.

3-inch pots, 4 to 5 leaves, beginning to show character, $1.25 per doz.; $10.00 per 100; $80.00 per 1000.

4-inch pots, 4 to 5 leaves, an excellent lot of plants, $3.00 per doz.; $25.00 per 100; $225.00 per 1000.

5-inch pots,	4 to 5 leaves	18 in. high	$ 5.00 per doz.	$ 40.00 per 100.	
6 "	5 to 6 "	18 to 20 "	9.00 "	75.00 "	
7 "	6 "	24 "	12.00 "	100.00 "	
7 "	6 to 7 "	26 to 30 "	1.25 each	15.00 per doz.	
8 "	6 to 7 "	28 to 30 "	1.50 "	18.00 "	
8 "	7 "	36 "	2.50 "	30.00 "	
10 "	7 to 8 "	36 "	4.00 "	48.00 "	

Made-up plants, 3 plants in a 7-inch pot, 24 to 28 inches high, $1.00 each. Exceptional good value for decorating.

Phœnix Rupicola.

We offer a fine lot in 6-inch pots, characterizing very nicely, with 6 leaves, 20 to 24 inches high, $1.50 each; $18.00 per dozen.

Stronger plants in 7-inch pots, 24 to 30 inches high, 6 to 7 leaves, $2.00 each.

Young plants in 2¼-inch pots, $1.00 per doz., $8.00 per 100.

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5-in. pots, 20 to 22 inches high,	4 to 5 leaves,	75c each	$ 9 00	per dozen.
5-in. pots, 24 " "	5 to 6 leaves,	$1.00 "	12.00	"
6-in. pots, 24 " "	extra heavy,	1.25 "	15.00	"
6-in. pots, 26 " "	6 to 7 leaves,	2.00 "	24.00	"

Kentia Forsteriana

5-in. pots, 20 to 22 inches high,	4 to 6 leaves	75c each,	$ 9.00	per dozen.
5-in. pots, 24 to 26 " "	5 to 6 "	heavy, $1.00 "	12.00	"
6-in. pots, 26 to 28 " "	5 to 6 "	1.25 "	15.00	"
6-in. pots, 28 to 30 " "	5 to 6 "	ex. h'vy, 1.50 "	18.00	"

Intending purchasers are invited to inspect our stock at any time.

ASPARAGUS SPRENGERII

We have a fine lot of strong, bushy, cool-grown plants in the following sizes:

2-inch pots			$5.00 per 100.
2½-inch pots, extra strong			$ 8.00 per 100 or $1.25 per dozen.
3 " "	10.00	" or	1.50 "
4 " "	20.00	" or	2.50 "
5 " "	25.00	" or	3.25 "

ASPIDIUM TENSEMENSII

This is the hardiest and most useful of all ferns for fern dishes, as it outlasts all others. Having once tried it you will never be without it. Strong, bushy, dark colored, well-hardened plants, from 3-inch pots, $8.00 per 100, $75.00 per 1000.

NEPHROLEPIS CORDATA COMPACTA The most useful of all the Nephrolepis family. Fine 2½-in. plants, $6.00 per 100; extra strong, 3-in. plants, $10 per 100.

BOSTON FERN—Strong 2½-in. stock, $5.00 per 100.

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PRIME FIELD-GROWN PLANTS

NEW YORK (Scott x Daybreak). A bright, cerise pink which has proven a very popular and taking color, maintaing its popularity through the season. The color is especially effective under gas or electric light. Habit is erect, strong, vigorous and an early bloomer. Has produced a larger crop than any other variety we have thus far grown. Flower medium to large, good strong calyx and stiff stem, rather stronger than Scott. We consider this our most profitable variety. $10.00 per 100.

BON TON (Portia x Cæsar). A bright warm scarlet flower, medium to large, nicely fringed, rich clove fragrance, perfect calyx, stem so strong as to need no staking. Habit exceptionally strong, resembling Portia. Has proved a good bloomer producing 20 flowers per plant during the season, is very popular on both New York and Boston markets. Is a good keeper and general favorite with buyers. $10.00 per 100.

WHITE CLOUD (Wood x Daybreak). Large, full white flower of excellent form and finish and possesses a strong fruity fragrance. Calyx strong, holding the full flower in good form. Habit same as Daybreak but more vigorous and an earlier and more abundant bloomer. It comes into flower among the earliest, throwing a fine, long, stiff stem from the start and continues blooming throughout the season. Has proven very profitable with us and we unhesitatingly recommend it to commercial growers. $12 per 100.

JOHN YOUNG (Scott x Storm King). Very double, snow-white, deeply fringed, high-built flower, with splendid calyx and strong clove fragrance. Habit erect, vigorous, with strong, stiff, wiry stems. Exceptionally free from disease, and a free and steady bloomer; the nearest to Scott in habit of any white carnation we have grown to date. A fine commercial variety. $10.00 per 100.

C. A. DANA (Scott x Uncle John). Delicate shell pink, erect habit, vigorous, wiry grower, medium to large flower on stiff wiry stems, color very soft and exceptionally pleasing. A splendid keeper, abundant cropper; one of the most attractive pink carnations we have. $8.00 per 100.

WM. SCOTT	$6.00 per 100	HECTOR	$6.00 per 100
PORTIA	6.00 per 100	DAYBREAK	8.00 per 100

Packed in crated cases so as to rate as closed cases and billed at lowest plant rates.....

THE COTTAGE GARDENS, Queens, N. Y.

THE FAULTLESS AND UNAPPROACHABLE WINTER FLOWERING BEGONIA

Gloire de Lorraine!

From 2½ to 6½-inch pots, 35c to $2.00 each. The largest stock in America.

——ALSO——

Adiantums Cuneatum, Tenerum and Farleyense and a good variety of Mixed Ferns for Ferneries.

——WRITE FOR PRICES——

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PALMS and FERNS



The Largest Stock of Plants IN THE WEST

GEO Wittbold 1708 N. HALSTED ST CHICAGO

A good adv. in a good paper will bring good returns.

....FIRST QUALITY FORCING ROSES....

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

LA FRANCE, METEOR, PERLE, BELLE SIEBRECHT. KAISERIN, MME. HOSTE 3-inch pots, $6.00 per 100. SUNSET, NIPHETOS 4-inch pots, $8.00 per 1000. PRESIDENT CARNOT, BON SILENE, BRIDE

J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphetos, Kaiserin, 3 and 4-inch.

Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted.

A. S. MacBEAN, Lakewood, N. J.

FINE ROSE STOCK

Extra fine 3-in. Bridesmaids and Brides, $3.50 per 100. . . Perles, $5 00 per 100.

MUST CLOSE THESE OUT Special Offer—To points within 500 miles we will pay half of the express charges, or all the freight. Cash with order. Stock strictly first-class, worth nearly twice the money.

W. H. CULLETT & SONS, Lincoln, Ill.

AMERICAN BEAUTY

Fine young plants, healthy and strong. 3-inch pots, $10.00 per 100; $90.00 per 1000.

EDWIN LONSDALE,
Wyndmoor, Chestnut Hill,
Cash with order. PHILADELPHIA, PA.
Money Order Office, Station H, Phila.

GOLDEN GATE Rose Plants.

SELECTED STOCK.

3 and 4-inch pots, $25.00 per hundred. For Cash or in Exchange.

American Rose Co., Washington, D. C.

ROSES! ROSES!

Brides, Meteors and Maids, 3-inch, $4.00 per 100; $35.00 per 1000. 2-inch, strong, $2.50 per 100; $20.00 per 1000.

Perles, Beauties 3-in., $5.00 per 100; $45 per 1000.

50 at 100 and 500 at 1000 rates. Cash with order.

ROBERT F. TESSON,
West Forest Park, - St. Louis, Mo.

ROSES. ROSES.

No finer grown. Big bushy plants, full of flowering shoots, out of 3 and 3½-inch pots, at $3.00 per 100. Meteors, Brides, Bridesmaids, Perles and Beauties. This stock is cheap at twice the price, but must be sold at once to make room.

SMILAX PLANTS, 2-inch pots, full of roots and covered with plant—no finer to be had—at the lowest price ever quoted. 75c per 100; $5 00 per 1000.

CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

ROSE PLANTS

EXTRA STRONG 3 and 4-IN. STOCK HEALTHY.

	3-in. Per 100	4 in.
Bride	$3.00	$5.00
Bridesmaid	3.00	5.00
Meteor	3.00	5 00
Perle	3.00	5 00

BROWN & CANFIELD, - Springfield, Ill.

Mention the American Florist.

Pittsburg.

FLORISTS' AND GARDENERS' CLUB INDULGES IN A MOST SUCCESSFUL PICNIC.—SPORTS AND PRIZE WINNERS.—THE CUT FLOWER COMPANY ENJOYS AN AUSPICIOUS OPENING.—JAMES SEMPLE REAPS AN UNEXPECTED REWARD FOR KINDNESS.

On September 1, the Pittsburg and Allegheny Florists' and Gardeners' Club gave a basket picnic at Ross' Grove. The attendance was good, a large number of the members being accompanied by their wives and families. The day was given up to amusements which were in variety enough to suit all. Geo. Oesterle and Julius W. Ludwig, captained opposing nines on the baseball ground, Oesterle's team winning the game by a score of 13 to 11. The bowling alleys were occupied constantly all day. Ernest Fischer, of Castle Shannon, won the box of cigars, and John Bader, in the men's foot race, won a handsome piece of bric-a-brac. The boys foot race was won by DeForest Ludwig, son of E. C. Ludwig; the prize was a large watermelon. James Semple, of Bellevue, proved conclusively that one Scotchman, at least, knowns how to pitch the game of quoits. Everyone enjoyed the picnic hugely.

The Pittsburg Cut Flower Company, limited, opened for business on the morning of September 1, at 705 Penn avenue, without any flourish of trumpets or formalities; their stock of flowers was good and purchasers and orders were in such fair numbers that the "opening" can be called a success, the venture giving every promise of being a successful one. Their store room is fitted up neatly, with an eye for business rather than to catch the public eye. Mr. Langhans and Mr. Clark will give their whole time to this business, while Mr. Burki, the president of the company, will only devote a portion of his time.

On Wednesday evening, August 31, James Semple, of Bellevue, was visited by a committee of the motormen and conductors of the California avenue branch of the electric road, which runs past Mr. Semple's place. Mr. Gordon, a conductor, on behalf of the men, presented him with a very fine reclining chair for Mr. Semple's many acts of kindness to them, particularly in allowing them free access to his pump, other residents refusing theirs. Mr. Semple replied, stating that he would always regard this as one of the most pleasant episodes in his life, and more especially so as it was an entirely unlooked for attention, never dreaming that giving water would lead to such a return. REGIA.

E. G. HILL & CO.,
RICHMOND, INDIANA.
FLORA HILL, JUBILEE
FIELD CLUMPS
$8.00 per 100$75.00 per 1000.

Field-Grown CARNATIONS
And Violet Plants
GOOD STOCK. LOW PRICES.
A. WASHBURN & SON, BLOOMINGTON, ILL.

Field Grown CARNATIONS
Daybreak, Eldorado and Anna Webb, @ $6.00 per 100
Portia, McGowan and Scott, @ $4.00 per 100.
Free from rust. Cash with order.
DANA R. HERRON, - Olean, N. Y.

25,000 Carnations
FINE, STRONG PLANTS, PERFECTLY FREE FROM RUST.
WM. SCOTT, TIDAL WAVE, DAYBREAK, PORTIA.
$3.00 per 100; $25.00 per 1000. Cash with order.
CHARLES SCHAFER,
220 Balmoral Ave., STATION X, CHICAGO, ILL.
When writing please mention American Florist.

CARNATIONS!!
As fine as can be grown and healthy.
2000 Silver Spray (extra)
1000 Daybreak
500 Garfield
500 Scott
250 Albertini
250 Tidal Wave
250 Portia
500 Marie Louise Violets
$4.00 per 100.
CHINESE PRIMROSES in variety, 3-in., 3c.
FRANK BERRY, Stillwater, Minn.
Meotion American Florist.

CARNATIONS
Strong, field-grown plants, and FREE from rust.
250 Armazindy
3000 McGowan
3000 Alaska
1200 Wm Scott
200 Helen Keller
$4.00 per 100.
75 Hector
100 McBurney
400 Pingree
$5.00 per 100.
500 Jubilee$8.00 per 100.
SOUTH PARK FLORAL CO.,
NEW CASTLE, IND.

CARNATIONS
PINGREE
ARMAZINDY
AND TRIUMPH
Field-grown. Ready now. Write for prices.
GEO. A. KUHL, Pekin, Ill.

CARNATIONS.
Fine strong plants, not too far advanced, perfectly healthy.
2000 LIZZIE McGOWAN
300 ELDORADO
600 WM. SCOTT
200 SLOANE
$4.00 per 100.
Cash with Order...
E. MESSMORE, Minerva, O.

Surplus Carnations
STRONG HEALTHY PLANTS
1500 Portia
1000 Wm. Scott
1000 Lizzie McGowan
$3.00 to $5.00 per 100.
Send 25c for sample. Write for prices on large quantities.
James C. Murray, 401 Main St., Peoria, Ill.

CARNATION PLANTS.
800 ROSE QUEEN
500 FRED DORNER
100 LIZZIE GILBERT
250 IVORY
150 ALBERTINI
100 BRIDESMAIDS
150 MINNIE COOK
All fine large, field-grown Carnations, fine, healthy plants.
A. G. PRINCE & CO.,
88 and 90 Wabash Ave., CHICAGO.

Large, Healthy, Field-Grown
CARNATIONS
of the following varieties:
McGOWAN, FELLOW'S RED, SCOTT, ROSE QUEEN, BRIDESMAID and ELDORADO.
$5.00 per 100; $40.00 per 1000.
Fine assortment of extra strong FERNS, $4.00. per 100.
Fine large SMILAX PLANTS, from 3½-in. pots, $3.00 per 100; $25.00 per 1000.
PRIMULA OBCONICA, from 3½-inch pots, at $3.00 per 100.
Large field-grown DRACAENAS, 3 years old, $10.00 per 100.
SWAINSONIA PLANTS, from 3½-inch pots, at $6.00 per 100.
JAMES HORAN & SON,
BRIDGEPORT, CONN.

CARNATIONS FIELD-GROWN
Ready September 1st and later.
2000 Lizzie McGowan
500 Ivory
500 Morello
500 Daybreak
500 Silver Spray
1000 Wm. Scott
300 Emily Pierson
200 Goldfinch
If you want any field-grown plants this fall write me before you buy and get prices on this lot. Address
Chas. Chadwick, Lock Box 11, Grand Rapids, Mich.

CARNATIONS
3000 Extra Fine Field-Grown Plants of DAYBREAK.
Also 1000 McGOWAN, 600 SCOTT, and 500 METEOR. Write for prices.
W. A. WETTLIN, Hornellsville, N. Y.

FIELD-GROWN CARNATIONS.
Ready now. Standard varieties. Write for prices.
FIELD-GROWN MARIE LOUISE VIOLETS, $4 per 100.
A1 stock, from pots, $3 per 100; $25 per 1000.
A few hundred BRIDES and MAIDS at a bargain, from 3-inch pots.
CRABB & HUNTER, Grand Rapids, Mich.

FINE FIELD-GROWN **CARNATIONS.**
660 Daybreak.....$5.00 per 100
325 Goldfinch..... 5.00 per 100
850 Portia..... 4.00 per 100
260 Wm. Scott..... 4.00 per 100
1450 McGowan..... 4.00 per 100
400 Her Majesty, pink..... 4.00 per 100
ROSES—La France, $3.00. Meteor, $2.50.
THE NATIONAL PLANT CO., Dayton, O.

FIELD GROWN **CARNATIONS**
Lizzie McGowan, Wm. Scott and Portia, $6 per 100; $50 per 1000.
JOHN REIMELS,
WOODHAVEN, L. I.

CARNATIONS.

We have a fine lot of extra strong plants in the field, including

FLORA HILL, VICTOR, LILY DEAN, MAYOR PINGREE, EMPRESS, ARMAZINDY and others. Also Jubilee in 4-in. pots.

WRITE FOR FULL LIST AND PRICES. Full Price List of PALMS, FERNS, DRACÆNAS, Etc., also Ready.

ROBERT CRAIG & SON, Market and 49th St., Philadelphia.

CARNATIONS

Fine Field-Grown Plants.

	100	1000
WM. SCOTT	$3.00	$25.00
NANCY HANKS	3.00	25.00
EMMA WOCHER	3.00	25.00
TIDAL WAVE	3.00	25.00
PORTIA	3.00	25.00
LIZZIE McGOWAN	3.00	25.00
KOHINOOR	3.00	25.00
NIVEA	3.00	25.00
MORELLO, MAYOR PINGREE	6.00	50.00

No order for less than 100 accepted.

REINBERG BROS.
51 Wabash Ave., CHICAGO.

CARNATIONS

NOW READY

EXTRA FINE FIELD-GROWN PLANTS.

	Per 100
Mrs. S. A. Northway	$10.00
Alba Superba	12.00
Evelina	12.00
Gold Nugget	12.00
White Cloud	12.00
Flora Hill	6.00
Jubilee	8.00
Lizzie McGowan	4.00
William Scott	4.00
Daybreak	7.00
Victor	8.00
Tidal Wave	6.00
Morello	6.00

PANSY PLANTS from our INTERNATIONAL Mixed Seed, the very best, $5 per 1000.

VAUGHAN'S SEED STORE
Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

FIELD-GROWN
Carnation Plants

STOCK READY SEPT. 1st.

A good season has put our field-grown stock for Fall planting in excellent condition; clean, healthy and strong. The condition of our ground is such to insure the lifting of a plant with little or no loss of roots. Send for Price List.

F. Dorner & Sons Co.
LA FAYETTE, IND.

CARNATIONS

H. WEBER & SONS,
Oakland, - Md.

50,000 CARNATIONS

READY FOR SHIPMENT NOW

They are strong healthy plants, field-grown, and have been carefully disbudded all summer; they are now setting their first buds. This stock should not be confounded with stock that has flowered most of the summer, and is now offered at low prices—such stock is dear at any price.

WE OFFER THE FOLLOWING VARIETIES

Price, except where noted, $5.00 per 100; $40.00 per 1000.

....WHITE....

Uncle John.
Alaska.
Storm King.
Ivory.
Flora Hill, $7.00 per 100.

Daybreak, light pink.
W. Scott, standard pink.
Rose Queen, bright rose color.
Nancy Hanks, light pink.
Della Fox, peach pink.
Bridesmaid, fine pink.
Jubilee, scarlet, $7.00 per 100.
Triumph, large pink, $6.00 per 100.
C. A. Dana, new pink, $6.00 per 100.
Albertini, large light pink, $5.00 per 100.

Write for Special Prices on Large Quantities.....

TERMS: Cash or satisfactory references. Address

Forest City Greenhouses. **H. W. BUCKBEE, Rockford, Ill.**

4 Acres Field-Grown Carnation Plants, 91,000.

Our Carnations are grown with the greatest care, free from disease and packed lightly by our improved system of packing, by which we can send them to all parts of the United States and Canada in perfect condition.

CAPTAIN KINC	JOE JEFFERSON $2.00 per dozen.	MAYOR PINCREE $10.00 per 100.	C. A. DANA
JUBILEE	BUTTERCUP $1.50 per dozen.	CRIMSON SPORT $8.00 per 100.	HELEN KELLER
BRIDESMAID IVORY	METEOR ARMAZINDY $1.25 per dozen.	MME. DIAZ ALBERTINI DAYBREAK $6.00 per 100.	CHESTER PRIDE STORM KINC
SWEETBRIER PORTIA	L. L. LAMBORN SILVER SPRAY $1.00 per dozen.	LIZZIE McGOWAN PURITAN $5.00 per 100.	WM. SCOTT MRS. FISHER

Send for price list..... **J. L. DILLON, Bloomsburg, Pa.**

5000 CARNATIONS

EXTRA STRONG, FIELD-GROWN PLANTS.

LIZZIE McGOWAN, WM. SCOTT, PORTIA.

PRICE ON APPLICATION.

JEROME A. SUYDAM, Flatbush, N. Y.

EXTRA FINE CARNATIONS

WHY YOU SHOULD BUY YOUR PLANTS OF US:

1st. Because your order will be filled immediately.
2nd. Because our plants make a great mass of fibrous roots which enable them to stand long shipment well and to start at once when planted.
3rd. Because our plants are healthy and we grow the best varieties.

Send for prices..... GEO. HANCOCK & SON, GRAND HAVEN, MICH.

Chelone Barbata.

This magnificent hardy perennial, although known for a long time, has only of late received the attention it deserves, in fact since the custom of wiring flowers has been abandoned. The plants possess a triple value. First, they are handsome ornaments in the garden; second, they are valuable for pot culture and forcing; and third, the flowers are useful for cutting.

It is not alone the incomparable light red color of the flower which renders the plant attractive, but also the elegant, though solid, character of the spike. The flowers are borne on a long spike and are very durable, and the spikes produce blooms to the extreme tip. The variety C. barbata coccinea is remarkable for the brilliant scarlet color of its flowers.

The plant grows from three to four and a half feet high and produces flowers uninterruptedly from June till September. It deserves to be planted extensively for cut flower purposes, affording as it does excellent material for vases, table decorations, etc.—*Die Bindekunst.*

Worcester, Mass.

A week ago it was so hot that carnation housing waited for cooler weather and now we are all hustling to get them planted before they are frozen. Such are the beauties of our New England climate.

The cool wave has driven the people home from seashore and country and has enlivened trade considerably.

Good flowers are in very short supply and the scarcity of asters, owing to the ravages of disease, is very marked. Palm trade is commencing to start up and there are good trade indications all along the line.

The weekly exhibitions of the horticultural society are fully up to their usual excellence and most of the exhibitors are donating their cut flowers to the various sick Santiago veterans, through the local Volunteers' Aid Society. A. H. L.

HARRISBURG, PA.—W. H. Martin has gone to Cassville to make his home.

GREATEST BARGAIN IN PLANTS

Because all stock offered is in A-1 condition.

ROSES—Maids and Brides, 4-inch, $7.50 per 100. Meteor, Maids, Brides, Perles, Niphetos, 3-inch, $5.00 per 100.

CARNATIONS—Field-grown, ready now. Daybreak, Scott, McGowan, Jubilee, Rose Queen, Helen Keller, $7.00 per 100, or $65.00 per 1000.

VIOLETS—Marie Louise, field-grown, ready now, $6.00 per 100, or $55.00 per 1000.

RUBBER PLANTS—Ficus Elastica, 5-inch at $5.00 per doz.

BEGONIA REX—4-inch pots, $20.00 per 100.

WM. F. KASTING
BUFFALO, N. Y.

FIELD-GROWN
Carnations

ALASKA, McGOWAN, SCOTTS, THOS. CARTLEDGE	$5.00 per 100, $40.00 per 1000
DAYBREAK, FERD. MANGOLD, C. A. DANA, JAHN'S SCARLET	$6.00 per 100, $50.00 per 1000
VICTOR, $7.00 per 100.	

Cash with order.

S. J. REUTER, Westerly, R. I.

GUARANTEED
Fresh Seed From Australia.....

	Per 100	Per 1000
Kentia Belmoreana or Kentia Forsteriana, delivery included	$.64	$ 4.99
Samples on application to intending purebasers.		
Lil. Harrisii, 5x7	4.00	37.00
Freesias, Cal. grown, ⅜-½, delivered	.50	3.25
" Pure white flowers, guaranteed	.65	5.00
Calla, Ethiopica, 3x5 in.	4.50	40.00
" " 4x6 in.	6.00	55.00
" " 5x7 in.	8.00	75.00

Cyclamen Giganteum Bulbs 1½-3 in. diam., doz., $1.00. In pure white, rose, crimson, white with red eye, rose with dark eye. Select seed from Prize Flowers of above sorts separate or mixed. Clearance price, 100 seeds, 75c; 1000 seeds, $5.00.

Choicest PANSY SEED from Germany and Scotland Giant Flowers, oz., $3.50; ⅛ oz., $2.00; 1000 seeds, 25 cts. 5 per cent. for cash on above prices. Address

H. H. BERGER & CO.,
220 Broadway, St. Paul's Bldg., - NEW YORK.
(Established 1878)

JUST ARRIVED
Lilium Longiflorum!
PRIME BULBS IN SPLENDID CONDITION

	100	1000
FIRST SIZE, 6-8 inches	$3.00	$28.00
SELECT, 7-9 inches	4.75	42.50

Lilium Harrisii, 5-7 size @ $37.50 per 1000.

Now Ready A full line of all Fall Bulbs.
Send for Wholesale Florists' List.

W. W. Barnard & Co.,
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CHICAGO, ILL.

DOUBLE VON SION
Extra fine Bulbs, per 100, $1.75; per 1000, $15.00.

Freesia Refracta Alba
1st size, per 100, 75 cts.; per 1000, $5.50.

L. C. BOBBINK, Rutherford, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

JOSEPH HEACOCK
WYNCOTE, PHILA., PA.
GROWER OF
ARECA LUTESCENS,
COCOS WEDDELIANA,
KENTIA BELMOREANA,
LATANIA BORBONICA.

ASTILBE CHINENSIS (Spiraea) First Class
Certificate Mass. Hort. Society.....
Three sizes, fine stock, $20, $15, $10 per 100.

We recommend September and October planting for..... **HARDY HERBACEOUS PERENNIALS** IN VARIETY.

Price list and descriptive catalogue on application.

REA BROTHERS, Norwood, Mass.

UMBRELLA PLANTS
Fine 2½-inch plants, $2.50 per 100.

SONNENSCHMIDT & JUNGE,
456 E. Washington St., INDIANAPOLIS, IND.

SPECIALTIES IN BEST VARIETIES.
ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
Prices low. Send for list. VIOLETS.
WOOD BROTHERS, FISHKILL, N.Y.

BULBS

	Per 100	Per 1000
Lilium Harrisii, 5 to 7-in.	$4.00	$35.00
White Roman Hyacinths, 12 to 15-in.	2.00	17.50
" " 11 to 12-in.	1.50	13.00
L. Longiflorum, Japan, 6 to 8	2.50	22.00
" " 7 to 9	3.50	30.00
Freesia Refracta Alba, 1st size		3.50
" " " extra selected		5.50

Net cash with order.

HULSEBOSCH BROS.
ENGLEWOOD, N. J.

REX BEGONIA

	Per 100
34 Named Varieties, 2-inch pots	$8.00
34 " " Rooted Cuttings	4.00
Mixed " " "	2.00
" " 2-inch pots	4.00

Write for prices on other stock. Terms Cash or C. O. D.

GREENE & UNDERHILL
WATERTOWN, N. Y.

ASPARAGUS

PLUMOSUS NANUS, 2½-inch pots	$7.00 per 100
ROSES, Bride and Bridesmaid, 3½-in. pots	$5 per 100
Cyperus Alternifolius, 2½-in. pots	$2.50 per 100
Grevillea Robusta, 2¼-in. pots	$2.50 per 100

NATHAN SMITH & SON,
ADRIAN, MICH.

Geranium "MARS"
STOCK PLANTS, FIELD GROWN, READY NOW....
$1.50, $2.25, $3.00 per doz.; $15.00 per 100. Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

Rooted Cuttings of **AGERATUM Princess Pauline**, the most distinct and novel variety, of dwarf, compact habit; color sky-blue. Most desirable plant for retail trade, per 100 $2.00.
CYCLAMEN PERSICUM, in four colors, fine plants, 4-inch, per 100 $12.50.
ROSES—Souv. de Wootton and Bougere, 4-inch, per 100 $5.00.
Field-Grown CARNATIONS—Jubilee, Armazindy, Mayor Pingree, per 100 $7.00. Alaska, McGowan, Kohinoor, Daybreak, Rose Queen, Scott, Dorner and W. D. Sloane, per 100 $5.00.
Cash with order. **CHRIST. WINTERICH, Defiance, O.**

ASPIDISTRA Lurida fol. var. just now in good condition without leaves, good roots with sprouts, $6 per 100; sample, 90c per doz. postpaid. **Canna "Florida"** for trial 10 cents.

Asparagus Sprengerii Seed.... } 100, $1.00
Fresh from the vines..... } 1000, 8.00

Pampas Grove Nurseries Greenland P. O., Florida.

FOR SALE.
100,000 Strong **LATANIA** Seedlings, very well rooted, $25 per 1000
30,000 **FERNS** for dishes, very large, 2½-inch, $3 per 100; $25 per 1000.
4,000 **SWORD FERNS**, 4-in. $9, 4½-in. $10 per 100.
2,000 **RUBBER TREES**, in excellent condition, 5½-in. 50c; 6 in. 70c. You never saw better Ficus.
60,000 **PALMS** in variety. All sizes. (Medal awarded on Palms at World's Fair, 1893).
10,000 No. 1 **'MUMS**, ready for this fall. Try us on **No. 1 CUT FLOWERS.** 26 greenhouses.

ALBERT FUCHS, 2059-73 N. Halsted St. CHICAGO.

McCOWAN CARNATIONS, field-grown, strong, healthy, $3 per 100; $28 per 1000.
CINERARIA and BOSTON IVY, 2½-in., $2.50 a 100.
GERANIUM CLUMPS, $5 per 100.
INSALL & LEADBETTER, Moorestown, N. J.

LOWEST PRICES ON BULBS, BUT CASH!
Send in your wants for quotation, no price list issued.
J. L. SCHILLER, 404 East 34th St., NEW YORK.

	Per 100
2000 PRIMROSES, 2¼-in., ready to shift	$2.00
1000 GYNURA AURANTIACA, or Velvet Plant, a big seller, 2¼ in.	3.00
22,000 CARNATIONS, field-grown, first size, extra strong, Mayor Pingree, Mme. Dean, C. A. Dana, Sloane, Armazindy, Daybreak, Helen Keller, Ivory and Alaska	6.00 5.00
25,000 GERANIUMS, Marvel, S. A. Nutt, Hermione, La Favorite, Mrs. E. G. Hill, W. P. Simmons, Mrs. J. M. Garr and 20 others, rooted cuttings from 2-in. pots, $15 per 1000	2.00
1000 SALVIAS, Clara Bedman, La President and Vernon, 2¼-in. pots	2.00
2000 COLEUS, South Park Gem, Monarch, Prince Spiria and 10 others, good for stock, 2¼-in.	1.00

THE MORRIS FLORAL CO., Morris, Ill.

Mention the American Florist.

CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3-inch pots. Acknowledged by florists as the finest strain of Primroses to be had. Single varieties in finest named colors, $2.50 per 100; $20.00 per 1000 in assortment. Double Red, Rose and Cristata, $4.00 per 100. Extra plants added to help pay expressage. Adams and U. S. Express. Cash with order, or one-half cash and balance C. O. D.

JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.

VIOLETS. & SMILAX.

VIOLETS, Marie Louise, field-grown, strong and absolutely healthy, $4.00 a 100; $35.00 a 1000.

SMILAX, 2½-inch, fine, once cut back, $1.00 a 100; $8.00 a 1000.

Cash with order please. Samples by mail, 10 cts.

Will Exchange same for Rose Bushes, Fern or Asparagus plumosus nanus.

R. KILBOURN, Clinton, New York.

Chinese Primrose!

2½-inch pots, mixed colors, $2.00 per 100.

FERNS for jardinieres, $3 per 100.

PANSY SEED, ½ oz. $2.00; oz. $3.50. Plants October 1st, $3.50 per 1000

JOS. H. CUNNINGHAM, Delaware, O.

GOOD, FIELD-GROWN

Marie Louise Violets

None better ever seen, per 100, $5; per 1000, $40. Healthy stock.....

F. P. ZIMMERMAN, FLORIST, TARKIO, MO.

Pink Paeony Clumps FOR FALL PLANTING

At $10.00 per 1000. Will divide into two and three. Easily cultivated; need no protection during winter. Any florist having land will find them big payers. Freight any distance.....

BRANT & NOE, Forest Glen, Ill.

CLEMATIS PANICULATA

Strong plants, from 2 1-4 Inch Pots, $3.00 per 100. Cash with order.

HENRY YOUNG
5511 Waterman Ave., - ST. LOUIS, MO.

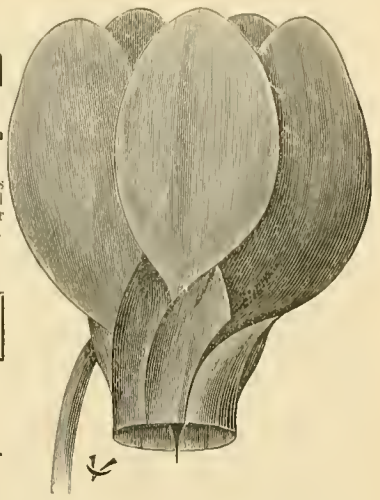
Don't Wait Till Frost

Sell your surplus Carnations and Violets now by advertising in.....

The American Florist

NEW SEED OF

Cyclamen Persicum Giganteum



IN THE FOLLOWING SEPARATE COLORS:

Pure White, Bright Crimson, White with Crimson Eye and Rose (Von Marienthal).

This Cyclamen seed has been grown especially for us by a most conscientious florist and we know that it will give entire satisfaction. Please favor us with your order for seed of this salable plant, at the very low price of.....

$5.00 per 1000 seeds; 100 seeds, 75 cents.

Our Exclusive List of Seeds of Perennials Sent on Application.

Vaughan's Seed Store

14 BARCLAY STREET, NEW YORK — 84-86 RANDOLPH ST., CHICAGO

HERR'S PANSIES. BUY THE BEST

SEED at $1.50 per ounce. A liberal packet for $1.00.
PLANTS at 75 cts. per 100, or $4.00 per 1000; 250 for $1.00, by express.

ALBERT M. HERR, LANCASTER, PA.

PANSY SEED Large Flowering.

Do you want to grow the finest Pansies, if so, buy the **JENNINGS STRAIN.**
Always reliable. None better. Very finest mixed, $1.00 per pkt. of 2500 seeds; $6.00 per ounce. White, yellow, black, blue, red, pink and lavender in separate colors, $1.00 per pkt. The above all grown from very finest stock. Cash with order.

E. B. JENNINGS, L. B. 284, **Southport, Conn.**
Grower of the Finest Pansies.

John! THE PANSY MAN

THAT'S WHAT THEY CALL ME.

Fresh seed now ready. J. B.'s Challenge is all that the word implies. TRY IT! Good percentage of light colors. Large trade pkt., $1.00 cash.

Plants Ready Sept. 15th.

JOHN BEIMFORD, WILTON JUNCTION, IOWA.



H. Wrede,
LUNEBURG, GERMANY.

PANSY SEED.

144 First Prizes, the highest awards World's Fair, and Hamburg, 1897.
1000 Seeds, finest mixed, 25c.
1 oz. " " " $3.75

Price List on application. Cash with order.

LOOK AT THIS....

3000 fine rooted runners of Princesse de Galles, 50 cts. per 100.

2500 fine clumps of Princesse de Galles, $3.00 per 100.

L. A. WALKER, LINDSAY, VA.

...SEE THIS...

Violets! Carnations!

1000 Farquhar's, 3-inch pots, extra fine, clean stock at $4.00 per 100; $35.00 per 1000.
Lizzie McGowan, 2nd size, $3.00 per 100.
See Convention Number for other stock.

CARL HAGENBURGER, - West Mentor, O.
CASH, PLEASE.

VIOLETS Marie Louise

2000 field-grown, strong clumps, clean and healthy, $4.00 per 100; 2½-inch pot plants, $2.50 per 100.

SCOTT CARNATIONS, field-grown, strong, $4 per 100. Cash with order. **J. J. LAMPERT, Xenia, O.**

Mention the American Florist.

PANSIES

Roemer's Superb Prize Pansies.

This improved strain includes all the leading novelties, strong, bushy plants, ready now, 60c. per 100, by mail; $2.00 per 500, by express; $4.00 per 1000; $7.00 per 2000; $10.00 per 3000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

Zirngiebel's Giant Pansies

PLANTS of the above strains at the same rates as the common varieties, viz: **$5 per 1000.** With our system of packing, plants can be sent safely any distance.

DENYS ZIRNGIEBEL, Needham, Mass.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at $1.00 each.

M. B. FAXON,
Lock Box 1528. BOSTON, MASS.
Correspondence solicited.

Pansies Worth Raising.

EXCELLENT SEED.

3-16 oz. $1.00; 1 oz. $4.00; up in 8 to 10 days, if properly treated.

FINE STOCKY PLANTS, $4.00 per 1000. f. o. b. express. **CASH WITH ORDER.**

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

VIOLETS. Large clumps Princesse de Galles and California Violets from field.

PRINCESSE DE GALLES, $5.00 per 100; 500 $22.50; 1000 $40.00.

CALIFORNIA, $3.00 per 100; $25.00 per 1000.

Large Runners of Princesse de Galles, $4.00 per 1000. California, $3.00 per 1000.

Strictly cash with order and quantity mentioned.

SEA CLIFF NURSERY,
ED. BOULON, Prop. Sea Cliff, L. I., N. Y.

CHOICE VIOLET STOCK

Of Marie Louise variety. Only clean and healthy; would exchange for Carnations. Write **I. B. COLES, Woodstown, N. J.**

Minneapolis.

The horticultural display at the Minnesota State Fair was the largest and best on record. The collection of plants and flowers included almost all classes of stock and dozens of premiums were awarded. A large proportion of the displays were by amateur growers, but the commercial floriculturists were well represented.

Jacob Hartman, Minneapolis, was first on asters, not less than six kinds, and on specimen palms. He was second on carnations, twelve-inch basket of flowers, pyramidal bouquet, hand bouquet, white bridal bouquet, five varieties of climbing vines, five hanging baskets, collection of coleus, collection of geraniums and vase of plants.

John Vasalka, St. Paul, was first on carnations in bloom, second on collection of tuberous begonias, third on vase of plants, collection of geraniums, specimen palms, collection of coleus, five hanging baskets, five climbing vines, bridal bouquet, hand bouquet, pyramidal bouquet, twelve-inch basket, and fourth on floral design.

R. J. Mendenhall, Minneapolis, was first on roses, floral design, twelve-inch basket, pyramidal bouquet, hand bouquet and bridal bouquet, and second on specimen palms.

John C. Fleischer & Son, St. Paul, were first on collection of climbing vines, five hanging baskets, collection of coleus, collection of tuberous begonias, collection of geraniums in bloom and vase of plants and were third on floral design.

Otto Hierskorn, St. Paul, was second on floral design.

St. Paul, Minn.

Christ Bussjaeger has an establishment two years old and his 9,000 feet of glass are fully insured. He grows cut flowers and bedding plants and a few potted plants for his local trade. For roses he grows Beauties, Brides, Bridesmaids, Woottons, Perles and Testouts. His carnations are of the varieties Daybreak, Silver Spray, Lizzie McGowan, Flora Hill, Jubilee, Garfield, Emily Pierson, Rose Queen, Scott and Tidal Wave.

Mr. Bussjaeger has made a success of all of these and of primroses, cyclamen and cinerarias and each year grows an immense quantity of bedding stock, mostly geraniums. He also has a very fine aster but has not been able to grow it in the quantities he desires as disease has killed seventy-five per cent of his plants.

Standard Flower Pots.

PRICE LIST OF STANDARD POTS:—

1¾-in. pots, per 1000	$3 00	6-in. pots, per 1000	$22 00		
2 " "	3 25	7 " "	35.00		
2¼ " "	3 50	8 " "	50 00		
2½ " "	4 00	9 " "	75.00		
3 " "	5.00	10 " per 100	10 00		
3½ " "	7 25	11 " "	15.00		
4 " "	9 00	12 " "	20 00		
5 " "	13 80	14 " "	40 00		
		16 " "	75.00		

Seed and bulb pans, same price as pots. Saucers to match pots, one-half price of pots. Ten per cent off for cash with order Send for price list of Lawn Vases, Hanging Vases and Cylinders. Address

HILFINGER BROS. POTTERY,
OR.... FORT EDWARD, N. Y.
AUGUST ROLKER & SONS, AGTS.,
52 DEY STREET, - NEW YORK CITY.

THE BEST FOR ALL Florists' "ROSE LEAF" EXTRACT OF TOBACCO INSECTICIDE FOR SALE BY SEED STORES FOR FREE PAMPHLET WRITE TO LOUISVILLE SPIRIT CURED TOBACCO CO LOUISVILLE, KY

THE HARRISH DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent.

KRAFT'S PLANT TONIC

THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25 cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.

THIS INSECTICIDE IS NON-POISONOUS.

KRAFT PLANT TONIC CO., - ROCKFORD, ILL.

Standard Flower Pots...



OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

☞ Write us before placing your orders elsewhere.....

CAMBRIDGE TILE MFG. CO., Covington, Ky.

GALVANIZED STEEL WIRE PLANT STAKES

FROM $2 PER 1000 UPWARDS

H. F. LITTLEFIELD, WORCESTER, MASS.

Tobacco Dust

Just at present we have a surplus and room is scarce. We will fill orders to the trade as long as surplus stock lasts at $12.00 per ton; $7.00 per ½-ton; $1.00 per 100. Cash must accompany order.

THOMPSON'S SONS, Rio Vista, Va.



BRANCH WAREHOUSES:
Kearney and Westside Aves., Jersey City, N J.
Jackson Av. & Pearson St., Long Island City, N. Y.

Standard Pots

Made by KELLER BROS.

Good Railroad Facilities For shipping. Special Attention Given to Mail Orders, and Special Sizes Made to Order.

NORRISTOWN, PA.

Price Lists Furnished on Application.

THOSE RED POTS

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y,
HARRY BALSLEY, Rep. DETROIT, MICH., 490 HOWARD ST.

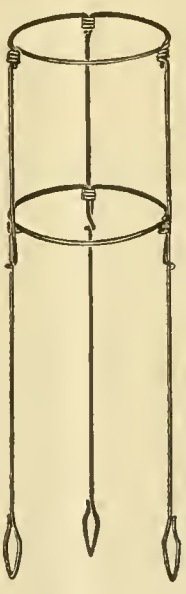
Standard FLOWER Pots

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST,
Station M, N. E. WASHINGTON, D. C.

Please Mention The American Florist.

The MODEL Extension Carnation Support



QUEENS, N. Y., Feb. 16, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97.
MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes
AT LOWEST PRICES.

Write for Prices, Circular and Special Discounts for Early Orders.

The Model Plant Stake Co.,
THERON PARKER, Mgr., Inventor and Patentee,
22 MORTON STREET BROOKLYN, N. Y.

FLOWER POTS

ALL KINDS.

STANDARD POTS

A SPECIALTY

List and SAMPLES FREE.

J. G. SWAHN'S SONS, P. O. Box 78, MINNEAPOLIS, MINN.



GEO. KELLER & SON,
MANUFACTURERS OF
Flower Pots.
Before buying write for prices.
361-363 Herndon Street
near Wrightwood Ave.,
CHICAGO. ILL.

CYPRESS
IS MUCH MORE DURABLE THAN PINE.

CYPRESS SASH BARS
UP TO 32 FEET IN LENGTH OR LONGER.

GREENHOUSE
AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book
"CYPRESS LUMBER AND ITS USES."
Send for our Special Greenhouse Circular.

THE A. T. Stearns Lumber Co.,
Neponset, Boston, Mass.

NIKOTEEN
IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE
DOES NOT INJURE THE MOST SENSITIVE PLANTS - ENDORSED BY PROMINENT FLORISTS - USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN ~~~~ CIRCULAR FREE ~
SKABCURA DIP CO. CHICAGO.
Kill AND SAVE the THE BLOOMS Bugs!
QUICKLY DOES IT.

Sheep Manure!

IN BULK	Per ton
Pulverized, car lots	$8 00
Natural, car lots	4 00
IN SACKS OR BARRELS	
Pulverized, less than car lots	12.00
Natural, less than car lots	8 00

F. O. B. cars here.
Mitchell, So. Dakota. E. C. NEWBURY.

Sulpho-Tobacco Soap
Universal Insecticide
For Flowers, Trees and Animals.
Recommended and in use by the foremost florists and nurserymen in the land.
For Sale at the Seed Stores.
ROSE MFG. CO.
NIAGARA FALLS, N. Y.
When writing mention the American Florist

SCOLLAY
SPRINKLER...
INDISPENSABLE
J. A. Scollay, Maker,
74 Myrtle Ave.
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VAUGHAN'S SEED STORE, Gen'l Western Agents,
84 Randolph St., CHICAGO.

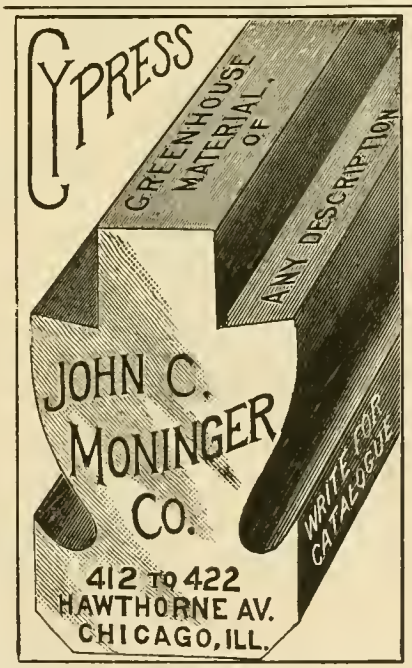
NEW & SECOND-HAND MATERIAL,
purchased from Sheriff, Receiver, and Assignee, sales at less than one-half prices. Pipe and Fittings Hose, Florists' Wire, Hot Water Heaters, Greenhouse Boilers and Engines, Rope, Light Wrought Iron Pipe Glass Sash, and thousands of other articles, for sale by
CHICAGO HOUSE WRECKING CO.
Largest Mail Order Depot for New and Second-Hand Material in the World.
W. 35TH & IRON STS., CHICAGO.
Write for our free illustrated catalogues.


EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS
WRITE FOR ILLUSTRATED CATALOGUE
QUAKER CITY MACHINE WORKS.
RICHMOND, IND.

H. M. HOOKER COMPANY.
COR. CLINTON and RANDOLPH STS. CHICAGO.
GREENHOUSE GLASS
OUR SPECIALTY.
LARGE STOCK PROMPT SHIPMENT.
Also Manufacturers of **Pure Linseed Oil Putty, Paints, Brushes Etc.**
WRITE FOR LATEST PRICES

WHEELER-STENZEL CO.
IMPORTERS AND JOBBERS OF
Make your contracts for next season now. We can deliver to any part of the country and Save You Money.....
Greenhouse Glass
72 Sudbury St., BOSTON, MASS.

Glass Hot Bed, Greenhouse and Ventilator **Sash**
GULF CYPRESS BARS, ETC.
MANUFACTURED BY
S. JACOBS & SONS, FACTORY: Queens Borough. OFFICE: 406 W. 13th St., N.Y.
WHITE LEAD, PUTTY, Etc., at Wholesale. Estimates Cheerfully Furnished.



ANGUS MORRISON,
Wholesale Jobber in
PLUMBERS', STEAM, GAS and GREENHOUSE SUPPLIES.
Telephone Lake View 88. 375 LINCOLN AVE., CHICAGO.

FOR SALE CHEAP.
GLASS for Greenhouses, Conservatories, Hotbeds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. THE REED GLASS & PAINT CO., 455 W. Broadway, NEW YORK.

Hot-Bed
Sash.
Tenons white-leaded. Corners secured with iron dowel pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments.

We have in stock and can ship immediately:

3	ft. x 6 ft., 3 rows	10 in.	glass.
3 ft. 3 in.	x 6 ft., 4 "	8 in.	"
4	ft. x 6 ft., 5 "	8 in.	"

Not glazed, 1¾ in. thick.

Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

LOCKLAND LUMBER CO.,
Lockland, Ohio.

Erie, Pa.

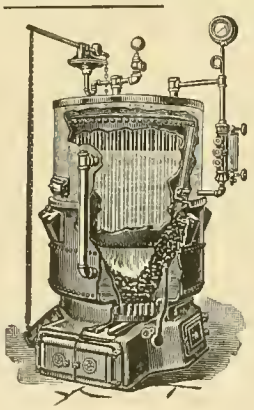
On September 7, H. A. Niemeyer was made the victim of the well known palm swindle. A man claiming to be in the employ of one of his customers ordered eighteen palms to be sent to the house. He met the driver in front of the house and told him where to take them. As soon as the wagon was gone he delivered them to the people to whom he had previously sold them. The trick was not discovered until the next day, when the driver called for the plants. Fortunately he had sold them all in the neighborhood and Mr. Niemeyer was thus able to find every one and reclaim them as they were stolen property. The people were glad to return them even though they had to lose what they had paid. The trick is so slick when it is worked right that even with the utmost care one is likely to be trapped. The same man tried to get a diamond from a jeweler, claiming to have been sent by another jeweler from a small town near here, but failed.

A. F. J. BAUR.

MUNCIE, IND. — Incendiaries burned Oscar Meek's greenhouse on the night of September 7 and attempted to fire his residence.

TERRE HAUTE, IND.—M. A. Hunt has sold the retail store in the Grand Opera House block to Earle Rippetoe, but will continue to conduct the greenhouses four miles southeast of town, as heretofore, under the management of George E. Hunt.

—THE—
GORTON SIDE FEED Boiler

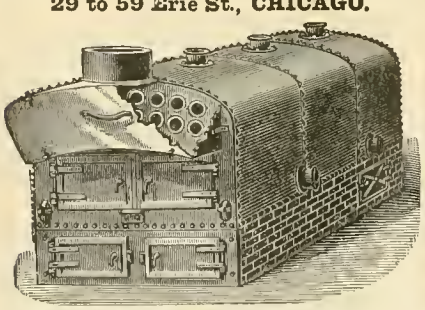


is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

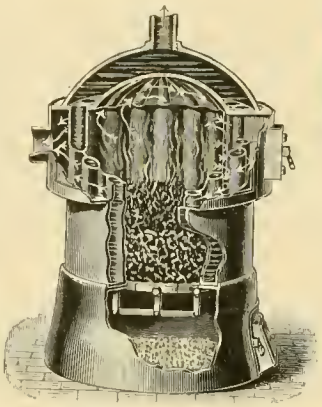
Further information on application.

GORTON & LIDGERWOOD CO.
96 Liberty Street, NEW YORK.

KROESCHELL BROS. CO.
IMPROVED
Greenhouse * Boiler,
29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



"DORIC" HOT WATER HEATER.
SECTIONAL VIEW.

Doric

CAPACITIES FROM 400 to 2600 FT. 2-IN. PIPE.

The Best Boiler on Earth for Greenhouse Heating.

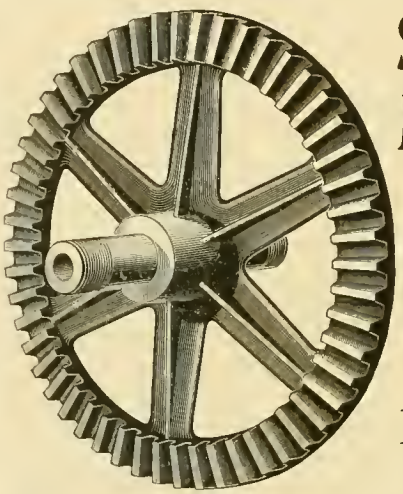
ALSO MADE FOR STEAM.

Water Section Made in One Casting. No Leaky Joints to Worry Over. Deep Fire Pot. No Need to Sit Up All Night to Keep Your Fire Going.

THE STANDARD OF THE WORLD.

SEND FOR FLORISTS' CATALOGUE AND PRICE LIST FREE UPON APPLICATION.

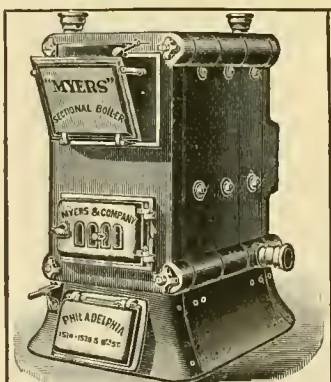
GURNEY HEATER MFG. CO.
NEW YORK CITY BRANCH: 48 Centre St.
74 Franklin St., Cor. Arch, BOSTON, MASS.



Standard Ventilating Machine.... HAS POSITIVELY NO EQUAL FOR STRENGTH, DURABILITY ...AND NEATNESS

Guaranteed for 10 years. Has a solid wheel and shaft cast in one (malleable iron). No slipping on Line Shaft as the case with all others. Catalogue free.....

E. Hippard,
YOUNGSTOWN, OHIO.



MYERS
Improved Sectional Hot Water Boilers
FOR HEATING GREENHOUSES, CONSERVATORIES, ETC.
GIVES MOST HEAT FOR LEAST MONEY.

ROBERT CRAIG & SON, of Philadelphia, say of it: "We are wonderfully well pleased with your Myers Boiler. We recommend it to anyone desiring a strictly first-class hot water heating apparatus."

☞ Send for Catalogue B-5 and prices to

MYERS & CO.,
1514 to 1520 S. Ninth St., PHILADELPHIA, PA.

Steam and Hot Water Heating
ECONOMICALLY AND PERFECTLY INSTALLED BY
HENRY W. GIBBONS
134, 136, 138 Liberty Street, NEW YORK, N. Y.
CATALOGUES AND ESTIMATES FREE. EXPERT ADVICE FURNISHED

GREENHOUSE MATERIAL
Cal. Red Cedar and Louisiana Cypress.
BEST GRADES. PERFECT WORKMANSHIP.
A. DIETSCH & CO. 615-621 SHEFFIELD AVE. CHICAGO, ILL.

New Bedford, Mass.

E. Y. Pierce has remodeled his violet houses and has made many other noteworthy improvements about his greenhouses. R. H. Woodhouse has likewise overhauled his houses, putting things in the best of condition.

Wm S. Brown intends remodeling some of his houses, adopting the short span to the south system. A new idea at his place is an electric connection between the boilers and the night man's sleeping room.

The Florence Street greenhouses, which were formerly leased by W. G. Kraber, have been torn down, F. A. Sawle, the proprietor, having concluded to dispense with the place. Mr. Kraber has leased Geo. Brennan's greenhouses and, after overhauling them in a way to suit his purpose, he will be well prepared to do business.

Arthur Ashley, the vegetable grower, intends adding a house which will cover 40x200. As a cucumber grower Mr. Ashley's fame is widespread.

The Gardeners' and Florists' Club will give its annual chrysanthemum show at Adelphi Rink on November 3, 4, and 5. As usual the amateur gardeners will be well represented. HOMO

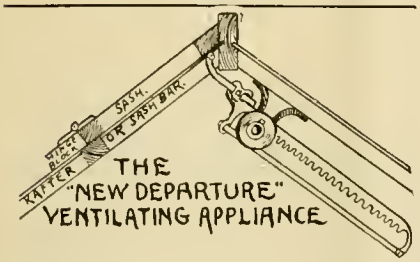
SEDALIA, MO.—From many candidates John Ahrens has been chosen as superintendent of city parks.



LOUISIANA Cypress Green House Material.

RED CEDAR

WRITE FOR ESTIMATES.



You can not get a *GOOD THING* for nothing. But the price of this apparatus is next to nothing. Send for price and description to

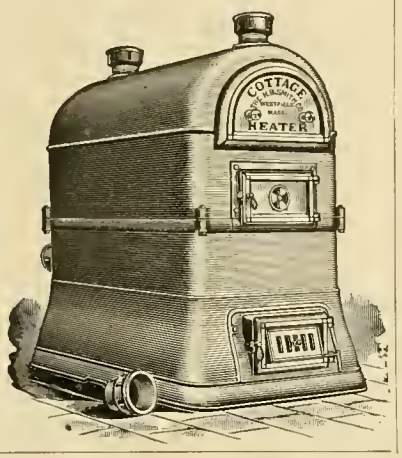
J. D. CARMODY, Evansville, Ind.

Clear Cypress Greenhouse Material.

This *with us* means the best growth of Cypress Lumber and the best grade of that growth; and from this grade all the sap—bright sap, which only experts can detect—as well as stained sap, knots and other defects cut out. Others do not equal our quality if they do beat our prices. It is not hard to see the reason: You can not buy gold dollars at fifty cents each. Experienced growers know that the best is not too good and cheapest in the long run.

Write for Circulars or Estimates.

Lockland Lumber Co.,
LOCKLAND, O.



SALESROOMS:
133 Centre Street, - NEW YORK CITY.
510 Arch Street, - PHILADELPHIA.

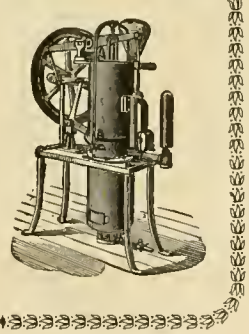
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WESTERN AGENTS:
WESTERN BRASS MFG. CO.
ST. LOUIS, MO.

PACIFIC COAST AGENTS:
HOLBROOK, MERRILL & STETSON
SAN FRANCISCO, CAL.

EUROPEAN AGENT:
AUG. EGGERS,
Bremen and New York City.

THE H. B. SMITH CO., Westfield, Mass.



Water

For Greenhouses, Gardens and Lawns in liberal quantities, every hour of the year, whether the wind blows or not

Improved Rider Hot Air Pump
Improved Ericsson Hot Air Pump

Can be run by any ignorant boy without danger. Explosion impossible. Prices greatly reduced. In use in every part of the world.
Send for Catalogue A 3.

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22 Cortlandt St., NEW YORK. 86 Lake St., CHICAGO.
239-241 Franklin St., BOSTON. 29-31 N. 7th St., PHILADELPHIA.
684 Craig St., MONTREAL, P. Q.

G. M. KENDALL

GREENHOUSE CONTRACTOR, STEAM AND HOT WATER ENGINEER

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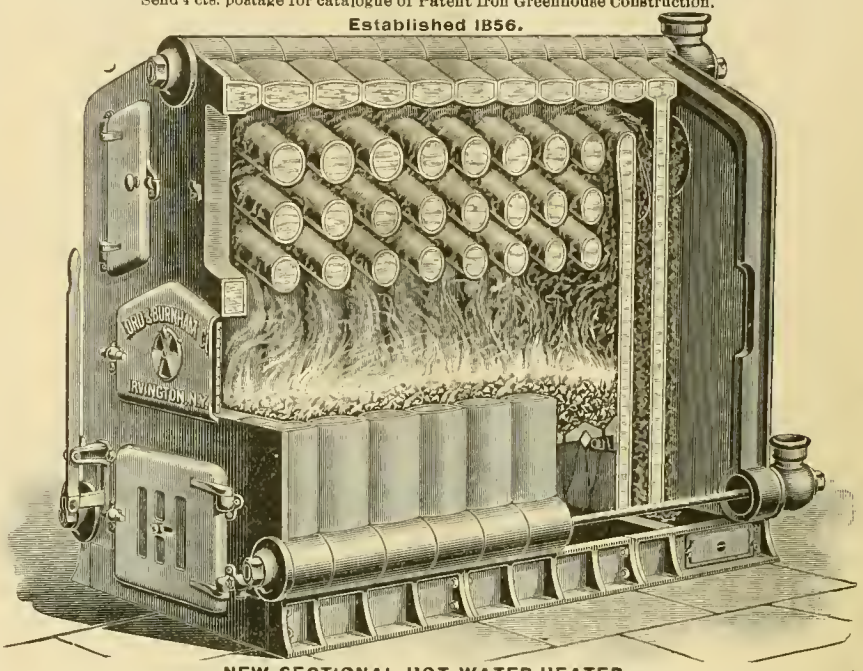
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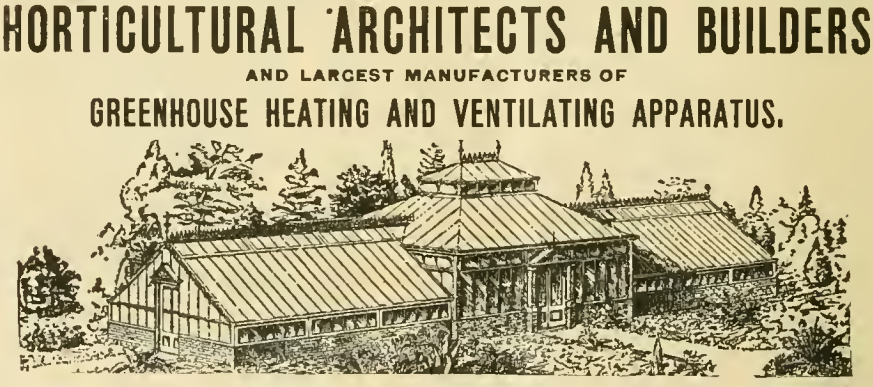
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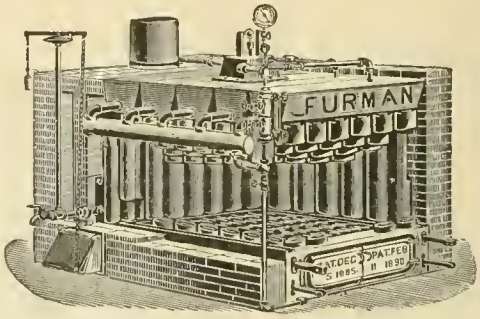
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ERIE, PA.—E. C. Hill contemplates adding a palm house to his plant and John Trost will build an additional carnation house.

ROSES.

GROWING AMERICAN BEAUTY FOR MARKET.

There are probably no two cultivators of this rose who follow exactly the same treatment and in many cases it would not be advisable to do so. In almost every instance particular classes of soil, different positions of the greenhouses and many other points have to be studied and the treatment for each carried out accordingly. With this particular variety close attention must be given to many such apparently minor details to insure success, and with this in view it is hardly possible to give a system of treatment which all growers can follow to the letter. The first necessity is a good cutting, and the best, I believe, for all practical purposes is one taken directly under a bud which has been produced on a very short growth.

Such buds are of very little commercial value, but the cuttings of this character, if taken when the bud is half developed, will be found in about the right condition to root freely, as they have several eyes usually quite close together. The bottom leaves should be trimmed off so that about two inches of the base can be placed in the sand, and the leaves retained should stand clear of the surface of the cutting bench. In preparing the propagating bench, it should have from two to three inches of clear, sharp sand, pressed very solid. The cuttings root best, I find, over a brick bottom. After the sand is carefully prepared give it a good watering, then with an old knife draw a cut across the bed about one and one-half inches deep, insert the cuttings from one to one and one-half inches apart, according to the strength and size of the foliage. When the row is filled, press the sand very firmly around each cutting, give a good watering with a moderately fine rose to settle any loose particles and follow the same course till the whole batch is inserted. If well watered when first put in, they will only need light waterings about every other day, but should be syringed overhead every morning, particularly if strong fire heat has to be used to carry an even night temperature of about 56° and a day temperature of about 60° to 65°, according to sunlight. If the sun should be bright, a slight shading should be used for four or five hours in the middle of the day till the cuttings begin to root, which should be in from twenty-five to thirty days. February is the best month for propagating this rose.

As soon as the cuttings have made roots half an inch long, they should be lifted very carefully from the sand so as not to break off any, as they are very tender at this stage. Pot in clean 2-inch pots, using a nice friable loam with only a very small proportion of manure. Press the soil into the pots as firmly as reasonable, place on a bench where an even temperature can be maintained about the same as in the propagating house, water lightly and shade from bright sunlight till they have taken fresh root in the soil. The plants may then be given a fair share of light and air on sunny days and as soon as the pots are moderately full of roots a shift into the 3-inch size will be desirable, using the same kind of soil. The new soil, however, should always be as warm as that in which the plants have been growing, cold wet soil having a tendency to give the plants a severe check. These young plants, from the day they are potted till planted in their flowering quarters, should never be allowed to suffer for want of water or be saturated by overwatering. They should also be potted on immediately they need it, otherwise they will get a check in their growth from which it is often difficult to revive them. As the season advances they should have all the air possible, and as it often happens in spring, an occasional night will be quite warm, the ventilators on such occasions should be left a little open. Nothing will give the American Beauty black spot quicker than a close, stagnant atmosphere and this applies through all stages of growth, from the cutting bench till the plants are finally discarded.

Presuming that a house is ready to plant with American Beauty on the first of June, the cuttings that were put in the sand early in February will then be good strong plants in 4-inch pots. The house is prepared by being thoroughly cleaned of all dirt, rubbish, etc., and then burning a good lump of sulphur therein with all the ventilators closed. This burning of sulphur kills all insects which may be hiding in the crevices of the woodwork. After this every piece of the side walls, interior surface of benches, etc., gets a good coat of hot lime-wash. A little excelsior is then laid over the cracks in the bottom of the benches to prevent the soil falling through and the house is all ready for the new compost. This is previously prepared outside, in the manner often described in these columns, and the house filled according to requirements. When this is done the plants are placed in position in rows about fourteen inches apart each way, pressing the soil as firmly as possible about the roots and leaving a slight depression at the base of each plant to insure greater efficiency in watering. The roots will soon begin to spread out through the soil, which should then be pressed very firm, either by tramp-

ing with the feet or pounding with a brick or piece of hardwood, and the surface very lightly raked over to make it even and level. On bright days they are syringed overhead two or three times and watered at the roots whenever necessary. All the air possible is given day and night until the weather gets cold enough to render fire heat necessary.

Six or eight weeks after planting a very thin mulching of fine manure is applied all over the surface, about half an inch thick. As they need it two stakes are placed at each plant and secured to a No. 18 wire stretched the full length of the house and about on a level with the top of the stakes which are of No. 8 wire and five feet long. This keeps each stake in place for the entire season and with the regular routine of watering, syringing, ventilating, tying, etc., is all that can be done till the buds are ready to cut, which will depend to some extent upon the time the market demands them. A house planted at the above date will usually begin to produce flowers, if needed, in seven or eight weeks, but by careful pinching the plants can be made to produce a much better crop a few weeks later, if the first flowers are not allowed to mature. From the time fires have to be started, syringing once on each clear day will be ample and water at the roots as required but continue to give all the air possible at every favorable opportunity. In October, and about every six or eight weeks thereafter, add a very thin mulching of fine manure. When the days increase in length, say February, begin the application of weak liquid manure, if the days are bright, but in continuous cloudy weather this should be withheld, as it forces the plants into growth too vigorous to be useful. Insect pests must of course be kept in check at all times.

JOHN N. MAY.

DEPOSIT ON ROSE LEAVES.

ED. AM. FLORIST:—The enclosed rose leaves are covered on the under side with a new, or previously unnoticed deposit. I at first thought it to be fly-specks, but on microscopic examination find I am mistaken, and would like some one to tell me what it is. The plants from which the leaves are taken were benched from 2-inch pots in April and the glass taken from the house, so they have been exposed to the weather and have made fine growth. The Brides and Bridesmaids are from two to three feet high and show perfect health, though the foliage is not heavy. The buds have been picked off as fast as they appeared to encourage the plant growth. Within the past month I have noticed the deposit on the under side of the older leaves, but have paid no attention to it until the past ten days, when the plants seem to have been checked and such shoots as are coming out are not as strong looking as the former ones. I do not find any of the deposit on the newer leaves. F. P. D.

The samples of rose leaves received from "F. P. D." covered with black spots have all the appearance of being covered through a rich mulching of fresh manure. I know of no other reason for such a spot on the foliage. In putting fresh mulching particularly in warm weather, on the benches, the ammonia rises from the same and condenses and settles on the foliage in a very similar manner to the sample of leaves sent. "F. P. D." does not say whether he has mulched his plants recently, but I am inclined to think he must have done so from the condition of the leaves, or otherwise his soil has a large amount of humus in it, which, in warm, moist weather, would give off a large amount of ammonia, causing the spots to form on the leaves as above. They are certainly not insect deposits in any form. The way to avoid this is to have the manure fairly well composted and add a small amount of dry soil to it before working up to put on the bench. The dry soil will absorb the extra amount of ammonia and store it up for future use of the plants, rather than let it escape out of the ventilators as it often does when the manure is applied fresh without any previous preparation. JOHN N. MAY.

ROSE LEAVES ATTACKED.

ED. AM. FLORIST:—Please name and describe insect that is eating rose foliage, especially on plants grown near buildings; and give remedy for same. The insect seems to eat only at night, as none are ever seen on the plants. I. N.

Samples of rose leaves submitted by "I. N." have all the appearance of being eaten by the larva grub of the leopard moth. This insect is of a light brown color with darker spots over the body and averages about an inch to an inch and a quarter long. It buries itself during the day under the soil as a rule and migrates at night for its sustenance. Or it might possibly be the browner grub of the common brown moth that is seen flying about so much at night just after dark. These insects can always be found early in the season under old boards or any where that the lumber is piled, where they are sure to hide during the day. The larva of these two insects will do practically the same amount of damage to the plants as per leaves sent. Of course I am unable to say which actually does the damage without a sample of the grub to judge from. The only way to kill them that I know of is to take a lantern at night and examine the plants very thoroughly till the destroyer is caught. The ordinary cut worm would also do the same kind of damage. These are a very dark brown with black heads and quite black spots over the back portion of the body and run as a rule an inch and a half long. By carefully turning over any lumps of soil or any loose particles on the surface during the day these can be found as they are then hid away preparatory to their night's depredations. If "I. N." can catch one of these and forward through the mail, I will endeavor to give him its correct name.

JOHN N. MAY.

Hyacinth and Tulip Beds.

By planting Dutch bulbs, pansies or ten-week stocks we add about a month to the beauty of our flower beds and at the time of year when it is most appreciated. Of the Dutch bulbs the hyacinths and tulips are best for this purpose, daffodils, crocus, etc., belonging to places where they can remain undisturbed for several years to form clumps. In submitting designs for beds of hyacinths and tulips, I do not mean to say that this is the best way to plant them, for smaller beds, especially, solid planting with perhaps a plain border looks best, but when a bed is planted with bulbs year after year, it is desirable to use a design for a change. There are so many combinations among so wide a range of colors as we have of these bulbs, that I shall only give a few examples for Fig. 1. In the other illustrations the lining is merely to emphasize the design.

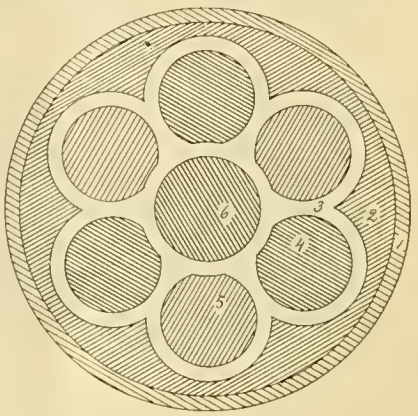


Fig. 1.—Twelve feet in diameter.

Fig. 1. Hyacinths: 1, Ida; 2, Czar Peter; 3, Baroness van Thuyll; 4, Robert Steiger; 5, Charles Dickens; 6, Baron van Thuyll; or 1 and 3 white; 2 blue; 4 and 5 light blue, and 6 dark blue, or a similar combination of red and white. Tulips: 1, Artus; 2, White Pottebakker; 3, Chrysolora; 4 and 6 Scarlet Pottebakker; 5, Proserpine, or 1, pink, 2 yellow, 3 white, 4 and 5 scarlet, 6 yellow.

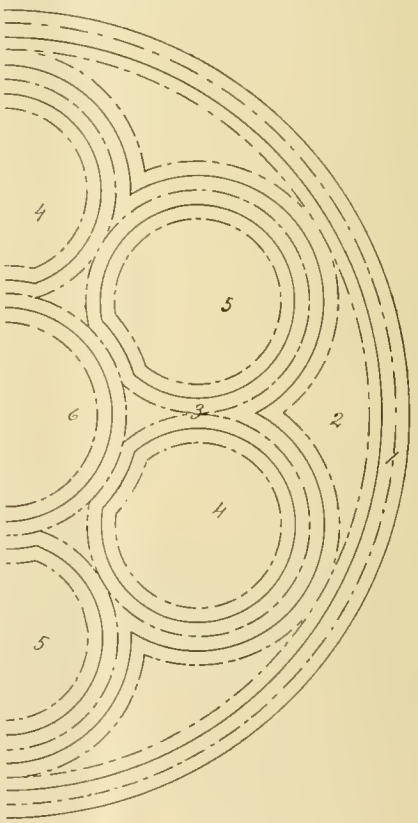


Fig. 2.

Fig. 2. This illustration, a working sketch of Fig. 1, may at a glance look like a confused lot of circular lines; the full lines are border lines of the different colors corresponding to those of Fig. 1; the dotted lines are those that should be drawn on the ground as they mark the outlines of the space on which the different colors should be set, consequently the full lines are not drawn on the ground but the bulbs are set on the dotted lines and in the spaces between. With a sketch like this, one can figure out almost to a bulb the number needed of each color to fill the bed. Hyacinths can be planted five to seven inches apart and tulips four

to five inches, five and four inches respectively, giving an intense color effect and therefore suitable for small beds.

These designs are all drawn to five inches between bulbs. If this distance is altered it will make a corresponding difference in the size of the bed; if six inches is the distance, for instance, the design of

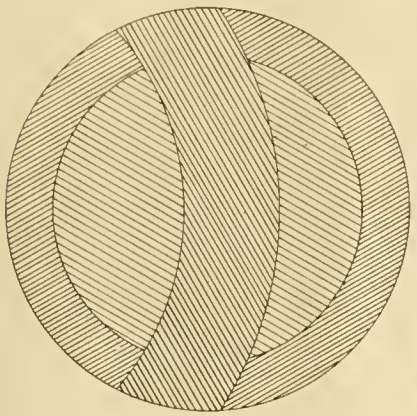


Fig. 3.—Seven feet in diameter.

Fig. 3, would fill a bed eight feet five inches in diameter. For such bedding only named sorts should be used, and for a good result it pays to get the best grade of single varieties as they give the greatest satisfaction. The mixed sorts, and bulbs in separate colors belonging to the mixed border, may be used for cut flower

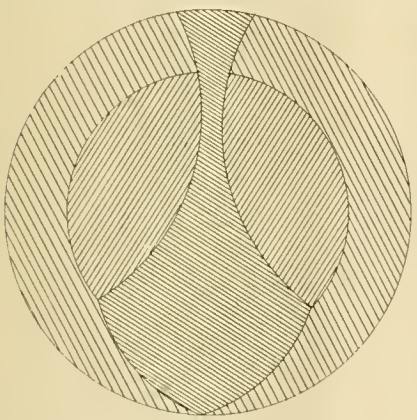


Fig. 4.—Eight feet in diameter.

purposes or for forcing, but for regular bedding they are a failure, being of different height, color and season of flower. Care should also be taken to choose varieties that bloom at the same time. In hyacinths, for example, Norma is fading when most of the others are coming out, and of tulips the Due van Thol

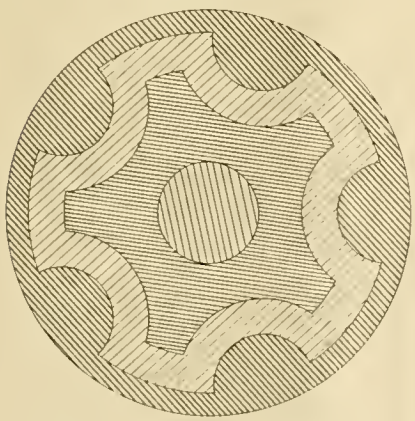


Fig. 5.—Ten feet in diameter.

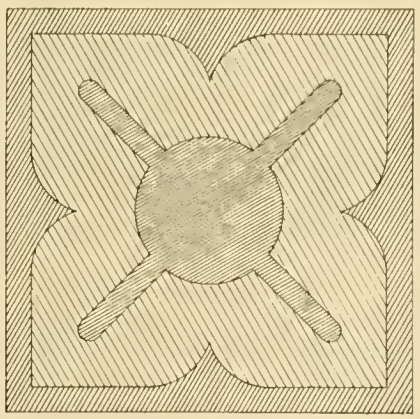


Fig. 6.—An eight-foot square.

class should not, for the same reason, be used with others. The height must also be taken into consideration and the sorts arranged in the bed accordingly.

The best time for planting is in October, but it can be done until winter sets in, and hyacinths can even be planted in early

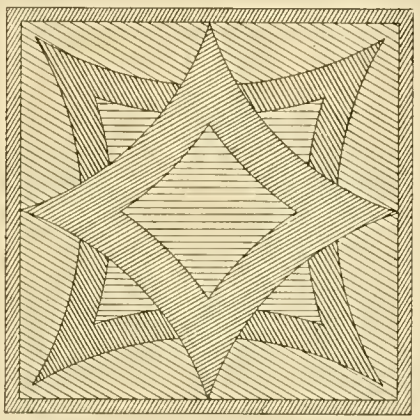


Fig. 7.—A twelve-foot square.

spring and give good results if the bulbs are kept well, but then the planting should of course be done as soon as the ground can be worked. A well drained, light soil is the best for bulbs. If too heavy and stiff, it should be mixed well with sand or sifted coal ashes; manure

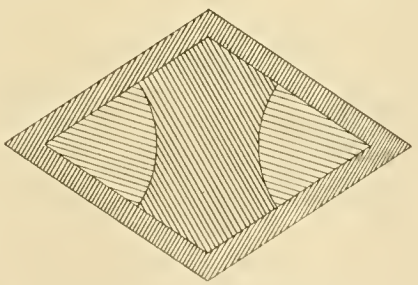


Fig. 8.—Diamond 6x9 feet.

will only do good, if it is well decayed; fresh manure and commercial fertilizers must be avoided.

A covering of three to four inches of soil on top of the bulbs is about right, and the planting can be done with a trowel, but a better though slower way is to dig out the bed to the proper depth, smooth and rake the bottom, lay out the design there and set the bulbs on that. In covering care must be taken to put the first soil on lightly otherwise the bulbs will be turned and knocked out of place. If the soil is not as well drained as desirable or if it is a cold and exposed position, it is better to set the bulbs right on the surface after preparing the bed and placing an inch of sand or coal ashes on top; then the bulbs are covered with the usual amount of soil. But if the place is too wet or cold it is a waste of time and money to plant bulbs.

But a bulb display can be had on a place really unsuited for the purpose, if it is desired, but in a round about way. We will then have to plant the bulbs in pots rather later in fall, burying them in a well drained place in the usual way only more shallow to keep them dwarf, covering and uncovering them as usual. When

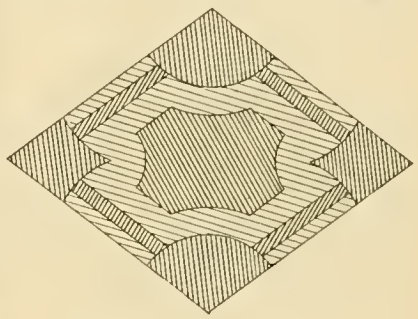


Fig. 9.—Diamond 9x12 feet.

they are coming on in spring they can be lifted, staked and tied, knocked out of the pots and planted the same way as summer plants. The main objection to this way is that most of the work comes when we have dozens of other things to look after, while the normal planting of bulbs comes at a time when we are not so much pushed.

Even when planting on suitable places it is a measure of precaution which insures success to order about five per cent more bulbs than wanted and to pot the surplus

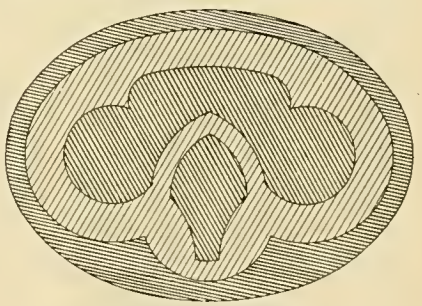


Fig. 10—Ellipse 6 1-2x9 feet.

and treat them in the above mentioned way, taking care to retard or bring them on a little in spring, as the case may require, to have them out at the same time as those in the bed. They can then be used as substitutes for the dead and poor ones.

After planting of the bed, it is allowed to stand until time for covering, which is when severe weather sets in. It is a gross mistake to cover too early and too heavy.

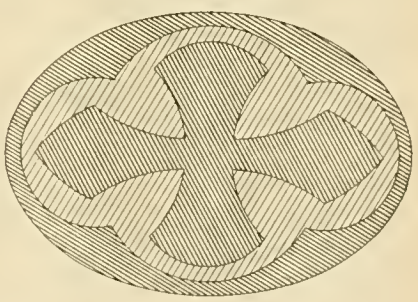


Fig. 11—Ellipse 8 1-2x9 feet

The soil is then kept warm enough for the growth of the bulbs, and the result is weak and comparatively useless shoots. The season for uncovering is sometime in March, according to the weather, but not before, as the repeated freezings of early spring are very injurious; in fact, the object of the covering is to keep the soil at a cool and even temperature. The best material for this purpose is straw, long manure or leaves.

When the bed is uncovered and cleaned, there is nothing to be done until the flowers begin to expand, then it may be necessary to stake some of the hyacinths, using thin pointed stakes stuck in the ground close by the leaves. It does not matter if they penetrate the bulb. The

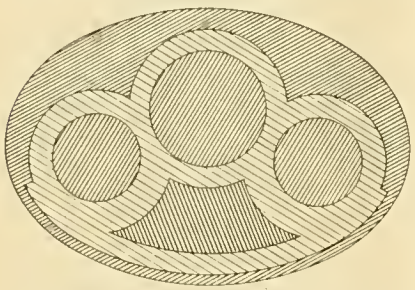


Fig. 12.—Ellipse 11x16 feet.

raffia or twine is then tied hard around the stake a couple of inches above the ground and then with a loose loop around the flower stem. Another tie is made moderately hard on the flower stem between the bells and then the stake is brought in close to the stem and tied with a loose loop; in this way the flower can keep on growing without being pulled into a crooked position.

The substitution of those grown in pots for dead and poor bulbs can be done either before the buds show color or when the flower is about fully expanded. During the first period care must be taken not to disturb the roots too much, but otherwise the work is easily done. When about fully expanded it does not matter so much about the roots, although some care is required in planting so as not to break any, but to disturb them between the periods mentioned as a rule proves fatal to the flower. When the flowers are faded, the stems should be cut off, as it is too hard a drain on the vitality of the bulbs to let them go to seed. The beds

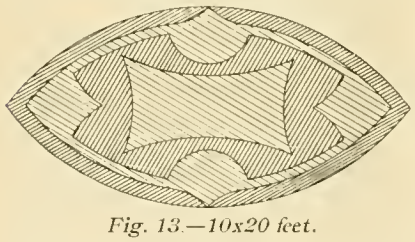


Fig. 13.—10x20 feet.

should then be watered if necessary and if no manuring was given in fall a dose of liquid manure will be of much benefit, the object being to get the bulbs as strong as possible for next season.

It is better to leave them in the ground till the leaves fade; then they should be taken up, spread and dried in the shade and stored away till planting time. But as a rule the beds are to be refilled before the growth has quite ceased, and then they should only be left to dry in the shade a few days for the tulips and about a week for the hyacinths and then laid in sand or dry soil and kept in a dry place till about August when they are taken out and stored as usual; otherwise, if

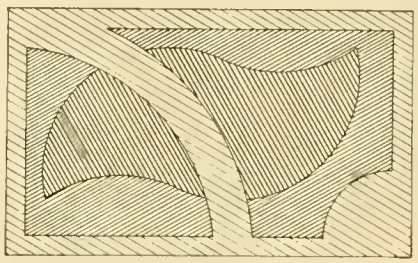


Fig. 14.—Rectangle 5 1-2x9 feet.

there is any moisture at all, they will start to grow. The bulblets that have formed at the base of the bulbs should be removed a couple of weeks before planting to allow the wounds to dry well.

When the boundaries between the different colors have been marked with small sticks, before the flowers were cut off, the bulbs can be lifted in sorts. The best of them can then be used again for the same purpose with good results, but the poorer ones should be classed with the mixed varieties. The bulbs can also be left undisturbed for a couple of seasons, filling the beds in summer with plants that do not rob the ground of too much of its strength, but it is better to replant each year.

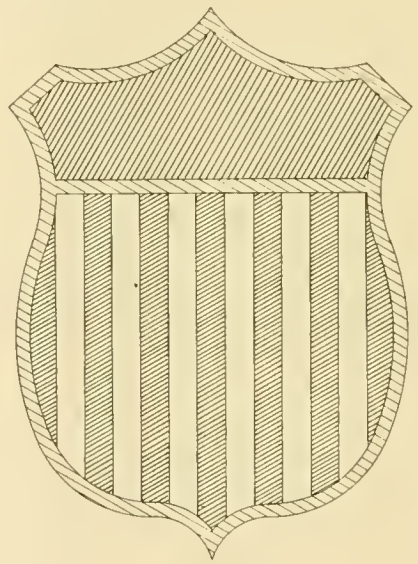


Fig. 15.

The patriotic design, Fig. 15, given here looks well planted in red, white and blue, and the outline in yellow hyacinths. The stripes should be made wide enough for two rows each at least. In this way and with five inches between the bulbs, the size of Fig. 15 is about 12x16 feet, requiring about 260 red, 220 white, 180 blue and 125 yellow hyacinths.

H. HANSEN.

YOUNGSTOWN, O.—H. W. Turner has resigned his position as manager of E. Hippard's large greenhouses to accept a place in Philadelphia.

MELROSE, MASS.—The second annual exhibition of the Amateur Gardeners' Association was held on September 14, afternoon and evening, and a large number of townspeople were in attendance. The hall and tables were handsomely decorated with plants and the display of flowers, fruits and vegetables was very extensive. The judges in the flower department were Chas. Ingram, L. R. Pittman and D. J. Desmond.

CARNATIONS.

CULTURAL NOTES.

September 24.—Carnation growers should learn valuable lessons from their experiences. Looking back over the summer just past I see the worst season for the growing in the field that I have experienced since entering the business. No rain from May 10 until July 12, then three showers in one week and little or no rain since. During the early part of this drought we had exceedingly hot weather and entirely dewless nights, making the worst possible growing conditions imaginable for carnations.

It is usual for me to have plants of such size that they require planting in the houses at least ten inches apart one way and twelve the other, but this season most of them could be planted 8x10 and that they attained even this size I attribute entirely to the fact that they were started early and were cultivated with especial care all summer.

Under these adverse conditions the varieties showed up quite differently in growth Among the whites Flora Hill made the finest growth. Next came Alba Superba, which also promises to be able to stand a few hard raps and come up smiling. Genesee and Jack Frost were very little behind Alba Superba. Evelina suffered considerably from the drought but has made some good flowers inside and promises to live up to its reputation for producing early flowers and many of them.

In pinks Triumph took the lead in fine growth but had quite a few dry leaves around the bottom of the plant. Mrs. Frances Joost made fine plants, clean to the bottom. Argyle also came in clean, and while not quite so good as Joost they are excellent plants. New York made fine plants, and a number of sports and seedlings I have on trial all came in fairly good. Victor and Daybreak suffered the most and were scarcely worth transplanting because of the dry leaves which extended half way to the top of the plants, but since they started in the houses they promise to turn out fairly well.

In yellow Eldorado made the best growth but did not transplant as nicely as the others. Pingree made good short growth but will not bloom until late in the season. Gold Nugget, on the contrary, while not as large as the Pingree, will have more flowers for the holidays.

In scarlet Bon Ton takes the lead; it is inclined to be close to the ground but otherwise it is an ideal plant. Jubilee, being a slow grower, made only medium sized plants. Wellesley turned out good plants and so did Red Jacket, but perhaps the most promising of them all is Uncle Walter, a sport from Tidal Wave, which will be sent out by John Murchie, of Sharon, Pa.; the plants are in excellent shape and promise to yield a very good crop for the holidays.

Armazindy leads all the fancy sorts for fine growth, and next to it comes Bird-in-hand, a new one that will be sent out by Elmer Weaver, of Bird-in-hand, Pa. Lily Dean made fairly good plants and so did Mrs. Bradt. Helen Keller suffered considerably from the weather but seems to be coming up well inside.

Contrary to even my own expectations the varieties sent me by John H. Sievers, of San Francisco, have made, with but one exception, the finest plants in the field. There are among these some remarkably good types and at this date they give promise of proving profitable commercially. Their lack of fragrance at

our Chicago meeting is not noticeable now; in fact just the opposite is the case for they are especially spicy.

My 1800 seedlings have failed up to date to show anything that would take a place over the varieties now in culture.

ALBERT M. HERR.

THE OUTLOOK IN ST. PAUL.

Carnations have made an average growth in this section. The weather was quite dry during the best growing period and plants on higher ground suffered. Rust is not so prevalent as in former years and we have not heard of any stem rot.

In white Flora Hill, McGowan, Evelina and a few Silver Spray are planted. In pink Daybreak still leads the list with Triumph, Scott, Victor, Tidal Wave and Mrs. McBurney following. In red Jubilee has been planted quite extensively, also some Portia and Morello, and of the new varieties Bon Ton and Firefly. In yellow and fancy varieties Mayor Pingree and Mrs. Bradt are the most promising.

One grower had his plants all housed before the Omaha convention and is now cutting a fair supply of good, medium and indifferent blooms. From present indications I do not think there will be enough blooms to supply the demand this winter. While a few more plants have been benched than last year, the supply is still deficient. Of the newer varieties Flora Hill, Triumph and Bon Ton are the most promising in their respective colors. Of the older varieties Daybreak and McGowan are the only ones considered good enough to plant extensively. FELIX.

AMONG THE GROWERS.

Peter Fisher, of Ellis, Mass., has filled his houses with the Mrs. T. W. Lawson and outside of this variety will grow only fifty to one hundred each of the best standard varieties to preserve stock and for hybridizing purposes. He has also a large number of very promising seedlings, some of them on second and third year's test.

Edward Swayne, of Wawaset, Pa., has given up most of his space to seedlings. He has a fine fringed seedling of Daybreak shade which promises well and of which he has planted 2000, also a clear yellow sport of Eldorado which he has named Pure Gold and which gives the appearance of being a valuable commercial sort.

S. J. Reuter, Westerly, R. I., is giving a trial to about every one of the recent introductions, including White Cloud, Alba Superba, Genesee, Evelina, John Young, Nivea, C. A. Dana, Bon Ton, Mrs. Northway, Elizabeth Skinner, New York and Frances Joost. He has planted Freedom and Alaska quite heavily.

Ernst J. Asmus, W. Hoboken, N. J., grows Mars and Jupiter exclusively for scarlet. This is his fourth year with Mars and he finds it all right. Jupiter has never yet been exhibited or put on the market and he thinks it good enough to keep exclusive for a while.

C. S. Swayne, Kennett Square, Pa., has planted 5000 of the new Sweetheart and is closely watching 500 other seedlings.

Wm. Swayne, Kennett Square, Pa., is giving Wellesley and Bon Ton a trial as standard scarlets. Chas. Hunt, Graniteville, N. Y., makes Scarlet Wave his leading scarlet and Dailledouze Bros. still swear by Hector.

A. J. Tharp, Bedford Station, N. Y., has a handsome new cerise seedling, of which he has put in 2000 plants.

Wm. Bell, Bayside, N. Y., has put in a good number of John Young, Maceo and White Cloud on the strength of the splendid showing made by these varieties at Cottage Gardens last winter.

W. R. Shelmire, Avondale, Pa., has about half his benches in Cardinal, Progress and Emeline, and half in unnamed seedlings.

J. N. May, Summit, N. J., has a new variegated and a new pink one of which he is growing 2000 each, and besides has several thousands of all shades of color under test.

A. M. Herr, Lancaster, Pa., devotes two houses each 20x150 to some twelve varieties of California seedlings from J. H. Sievers, of San Francisco. Their blooming qualities and commercial value are as yet unknown, but they have made an excellent growth and in general appearance give every promise of making a record for themselves. Triumph is one of Mr. Herr's mainstays in pink, and for scarlet Jubilee is planted in quantity. All the newer varieties are under trial here in greater or less number and there is also a large batch of seedlings.

John Reimels, Woodhaven, N. Y., has planted in addition to the usual large stock of standard varieties, Manhattan, Sebec, Triumph, Empress, Conch Shell and a few each of every one of the introductions of the past two years.

CHRYSANTHEMUMS.

CULTURAL NOTES.

September 24.—Some of the novelties of 1898 which we have on trial have made excellent growth thus far. Autumn Glory has fine foliage with short jointed footstalk and seems to be about right for commercial purposes. Mrs. C. H. Pierce is also a good, clear grower of about the right height, although we would like it to be a little stronger. Yellow Fellow is one of the best we have seen for growing into specimen plants or standards and also shows up well in the beds. Solar Queen has the heaviest foliage of any variety we have and will have to be planted farther apart than most sorts. In regard to height it is all that can be desired and from present indications ought to be ready to cut about October 20. W. H. Chadwick has made good growth, but we find that it must be watered sparingly.

Mrs. Arthur J. Caton will be fully as early as last season and with us its habit is of the best. We are very much taken with the growth of Maud Adams, especially as a specimen plant. One of its best points is that it holds its foliage so well. Geo. S. Kalb is the first one to show color here but some of the others will be ready before it, as Kalb should be allowed to fully develop before cutting. Midge, though later in showing color, does not take so long to develop.

Care must be taken now to prevent the beds getting too dry while the buds are swelling and after the petals commence to show or the blooms will suffer for it. Single stemmed plants in pots require plenty of light and a place near the glass, with plenty of ventilation. Market plants which have been lifted from the bench and potted as soon as rooted should have an application of weak stimulant every few days. Such plants must have room enough to allow the air to circulate freely around them or they soon lose their lower leaves. They should be staked and tied up to cause them to be of good form at the time they are wanted for sale and it pays to disbud market plants, although it should not be done quite so closely as with plants for exhibition. C. W. JOHNSON.

Fertilizers and Fertilizer Cartridges.

M. Fatzer, of France, has taken me to task for some comments recently made on M. Truffaut's fertilizer cartridges. He convicts me of one exceedingly glaring mistake and one which I hasten to apologize for, it is of such grave importance. It appears that the fertilizer is dissolved through the folds of the covering and not from the bottom as I wrote it. He also says that the fertilizer is in an immediately soluble form, but is compressed so that it dissolves little by little. According to the best of my ability to comprehend, this would come pretty near putting it into slowly soluble form, which is the expression used by "X", at whom M. Fatzer's remarks seem to be aimed.

These, however, are minor points. What has really aroused this aimable gentleman is my taking exception to the statement that M. Truffaut had analyzed hundreds of varieties of plants and composed for each a fertilizer exactly suited to its needs. After ridiculing and abusing poor "X" roundly, he reiterates this statement and adds: "This is the only scientifically true manner of proceeding."

In plain English, the trouble with M. Fatzer is, that he simply does not know what he is talking about. He is plainly and painfully ignorant of universally accepted facts—facts which have been time and again published broadcast and which are well known to every tyro in agricultural science.

Analysis of many individuals of the same species of plants grown in different soils, but apparently equal in vigor and productiveness, shows astonishing variations in results. It seems evident that the plant will take up those elements most available in the soil, to an extent far beyond its actual needs. This fact alone renders the analysis of the plant an uncertain guide. When we add to this the variable nature of soils as to the amount of the different available fertilizing elements they contain, the absurdity of M. Fatzer's talk becomes manifest.

We can readily conceive of a gardener, wishing to grow Asparagus tenuissimus, whose soil contained an excess of nitrogen, but was very deficient in potash. The use of M. Truffaut's special fertilizer for this plant in sufficient quantity to make up for the lack of potash, would, very likely, result in giving the plant an over supply of nitrogen, which is always a bad thing. In this case his pelargonium mixture would, without doubt, give better results.

There is no such thing as a "best" special fertilizer for any species of plant, to be used on all soils and under all conditions, and the man who claims to offer such a thing can be put down as "saying that which is not."

Our ahler growers have discovered that many plants, especially in the flowering sections, are benefitted by varying the nature of the feed at different stages of growth.

The true special manure must be special to the soil as well as to the plant species and must also be special to the stage of growth in many cases.

The chemist admits that his plant analysis is not conclusive for this purpose and he also admits that with present methods and appliances he is unable to analyze a soil so as to definitely show its fertilizer needs. He says, I can help you only so far under our present limitations; your further progress must be under the "old empiric methods" (which M. Fatzer condemns). You must experiment with your soil and the plants you desire to grow, until you find the combina-

tions which are special to your soil, your plants, your methods and conditions and special to them at their various stages of growth. When these true special manures are found they will quite likely be not truly special for your neighbor's and assuredly not for the whole world.

A word of advice, in closing, to Bro. Fatzer: When one finds it necessary to write on a subject which he knows nothing about, it is always safer to not write over one's full name but over an initial as does X.

Helpful Reminders.

While work should have progressed nicely during the past few weeks, there is much fall work still to be accomplished You can get help to paint, to do carpentering, mix soil and much of your work, but two items should receive your personal attention. I single these two items out for the reason that a mistake once made causes an injury long lasting. You will frequently have customers come in and ask you to help them out; they have a highly prized palm, are to leave town for the month and are afraid to leave it in the care of servants, or have a pair of agaves on their lawn which they wish cared for over winter. How many customers have been offended and how many times have you seen such cases terminate unsatisfactorily? You cannot do better than please your customers so long as they pay the bill, and the constant call for such service demonstrates its importance. It is as easy to care for a customer's plant as for one of your own; furthermore, a plant boarding is a sure sale compared with one of your own being grown on chance. Your greenhouse is for the care of plants and it is expected to yield a profit. Find out how much it costs per square foot to maintain your greenhouse; you will probably find that your house costs 30 cents a foot; then charge 40 cents; take all the plants that are offered, measure them, make out a receipt, giving dimensions and the amount of charges that will be collected when plants are returned, stating that the charge covers a period of eight months or less; if a plant is in bad condition be sure to say so on your receipt. Nothing makes friends better than a well managed boarding house.

The other item is cleaning up your cutting bench. Make out a memorandum of what stock you want propagated during the winter, and see to it that a large percentage of it is put in carefully now. Fall struck cuttings of geraniums in particular are the most satisfactory in spring, and it being so long before spring it requires forethought. You can hustle after January, it is true, and propagate a large amount of small stock, as many do each year, but such stock is not that which gives satisfaction.

In moving in your stevia plants it is well to set a few out in open ground, if you have such a convenience in a cool house; they hold well for holiday trade while pot plants frequently come on too early. Do not crowd them; this flower is becoming quite popular, but is wanted in long sprays, well furnished with leaves, which cannot be had without light.

All large plants that are in the open ground permanently, such as passion vine, jasmine, begonias, etc., should have their cleaning now. Useless wood should be cut out and all possible light given to the fresh buds. All the new growth should be able to adapt itself to the conditions which will prevail throughout the season and should not be disturbed later on. C. B. W.

New York.

TRADE SHOWS AN IMPROVEMENT.—PRICES ARE FIRM ON A SHORT SUPPLY.—NEW WHOLESALE PROJECT.—NOTES.

Trade for this week shows a slight improvement, the demand being better and the quantity of stock coming in shortened considerably, thus making prices firmer and keeping the market well cleaned up. Reports from all rose growers indicate that the stock is in splendid shape this season.

Howard Blauvelt has resigned his position with the New York Cut Flower Company and will open a wholesale flower establishment under the title of The Decker-Blauvelt Company at 42 West Twenty-eighth street in October.

John Yetter, familiar as a flower peddler for many years on the corner of Broadway and Nineteenth street, was found dead in his lodgings Thursday.

Alfred Dimmock arrived on the Umbria on the 17th inst.

The Victoria regia is blooming in the lily ponds in Prospect Park. The ponds are a great attraction for visitors, being brilliantly lighted at night by electricity.

H. H. Berger & Co. have moved from 220 Broadway to 47 Barclay street, where they will have much better facilities for handling stock.

A young lady clerk of the office of Suzuki & Iida is in Bellevue Hospital, her mind being affected.

San Francisco.

EXCELLENT BUSINESS AND TRADE PROSPECTS UPON THE PACIFIC COAST.—ROSES PROMISE WELL.—THE CHRYSANTHEMUM OUTLOOK.—AMONG THE GROWERS.—PERSONAL JOTTINGS.

Trade has been fairly good here and prices have held their own. We are receiving some excellent Semple asters at present and one grower is receiving 75 cents per dozen for his stock. A large number of Japanese lilies are coming in this season, particularly albums and rubrums, for which we are experiencing a very healthy demand.

Roses are plentiful and from present indications we are going to have some elegant stock this season. American Beauties are coming into the market in splendid shape and are bringing from $2 to $3.50 per dozen Some magnificent Brides and Maids are also to be had which are bringing a good figure.

Some very fine carnations are also coming in, particularly Mayor Pingree and Minnie Cook. They are wholesaling for 50 cents per dozen. Daybreak is not so prominent as in former years. Scott and Portia are also bringing good prices. Flora Hill is beginning to come in now; good stock sells for 50 cents per dozen.

The first greenhouse chrysanthemums of the season were brought into the market September 10, by John Carbone, of Berkeley. The flowers were all very large and sold readily for from $3 to $5 per dozen. M. Lynch, of Menlo Park, is also bringing in some Mrs. J. G. Whilldin chrysanthemums of very good quality. The present chrysanthemum outlook is that we are going to have plenty of early flowers on account of the peculiar growing season, but it is feared by some that the winter supply will be rather short as many of the late-flowering varieties are being rapidly forced into bud.

Violets are making a fine growth and are looking promising. Many of the retail florists are looking for their winter supply of palms, ferns, etc. Palms, particularly kentias and latanias are very scarce in salable sizes. There are plenty of small plants to be had but no large ones. Smilax, grown outdoors, is looking very healthful. Some fine lilies of the valley were received last week and retail readily for $1 to $1.50 per dozen.

A visit to Messrs. Fick & Faber, the carnation growers, shows their stock to be in first-class shape. This is their second year in the business. They have planted about 6,000 plants. One house of Mayor Pingree has done very well. They are also making a trial of Siever's best seedlings. Here also can be seen many of the novelties in bloom. They intend to plant C. A. Dana largely next season.

Paul W. A. Grallert is bringing in some of the finest Minnie Cook carnations that have been seen in this market. They are in good demand at 50 cents per dozen.

John Gilmour, who has started in the business near Haywards, has his two new rose houses in excellent condition and is already sending in some very fine blooms.

Mr. Gardener has returned from his eastern trip and is again with McLellan at Laurel Creek.

A new flower store has been opened at Sixth and Folsom streets.

Richard O'Connor is again in this city.

F. G. Krouse is on the sick list.

James Street, who has been head gardener for Capt. Kohl, has resigned and has gone to Oregon with his family and will engage in the wholesale growing of cut flowers.

Paul Monti, formerly of the firm of Carbone & Monti, died in this city a few weeks ago. Mr. Monti was one of our best known florists but of late years has not been identified with the retail trade.

Frank Pelicano spent a few days at Menlo Park last week looking over the different growers' stocks.

E. Serveau, of Serveau Bros., spent a day in San Jose.

The Cypress Lawn Cemetery at Colma is building another large greenhouse to be used for palms and decorative plants.

The Domoto Bros. have built quite an addition to their greenhouses this summer. The houses are to be used for chrysanthemums and cycas. They have many thousands of small palms and Cycas revoluta coming on for winter sales. Their chrysanthemums are looking very good.

Chas. C. Navlet, of San Jose, was a visitor this week. He reported a good trade in the city during the Native Sons' gathering.

Edward W. Parsons paid this city a visit last week.

Thos. H. Stevenson has had his store renovated and it now presents a very handsome appearance.

Jas. Carbone is now in Oakland.

John H. Sievers has been making an exhibition of his tuberous begonias this week. They are of excellent quality and are generally admired.

Charles Halbrow, formerly in charge of the park conservatories, is now head gardener to Capt. Kohl at San Mateo.

METEOR.

Philadelphia.

BOTH TRADE AND BUSINESS HOUSES ARE IMPROVING.—STOCK ALSO SHOWS A DESIRABLE CHANGE.—DEATH OF J. J. M'LEAN.

Things are brisking up considerably and the retailers are still improving. At Heron's, Eighteenth and Chestnut, a fine oak icebox with glass doors has been put in and the whole store repapered. Rupert Kienhle, of Seventeenth street, is also getting in a new refrigerator and

papering the store. Mrs. Shelly, on Thirteenth, has repapered and fixed up generally, and is much encouraged with the way business is coming in. At Pennock Bros., where the greatest changes have been made, the improvements are about finished and the place looks very swell. The new icebox, or flower case, or refrigerator, is almost as large as a small store and up-to-date in every respect. Electric lights cast their heightening color, reflected both by mirrors and marble; plate glass shelves on brass rods receive the white fibre flower vases, while beveled plate composes the greater part of the sliding doors. Large drawers at the bottom contain smilax and fern leaves. A large compartment at one end with a mirrored door is intended for ordered and selected stock, a very necessary place in a retail store. The new mosaic tiled floor of the store looks well and the quartered oak chairs and card desk in front of the counters leave nothing to be desired.

All the stock coming in seems to be getting better every day. Roses now reach the market in good, salable condition. Prices are much the same as last week, perhaps a little stiffer. Carnations now move lively at $1 per hundred, which is a good price for the season. Beauties start at $4 per hundred and step by degrees up to $12.50. The first violets are in but beyond being sweet they have no claim, being very small and of poor color. Valley is more plentiful and another source of supply has been opened, George M. Moss having been appointed agent in this city for the Ernest Asmus brand, which he will have in stock at all times.

S. S. Pennock's improvement is going on and he hopes to have the annex completed and the storage system in working order before the first of November. His tile counters for a commission store are quite an inovation. His business hours are now from 7 a. m. until 8 p. m. and it is rumored that in the near future his doors will never be closed save on the first day of the week.

We regret to announce the death from typhoid fever of John J. McLean, a member of the Florists' Club, whose funeral took place last Thursday. The club at a special meeting passed suitable resolutions and sent an emblem composed of cycas leaves in the form of a cresent wreath decorated with Carnot and Kaiserin roses and orchids. Mr. McLean was about thirty years of age and leaves a wife and two children. He was in the employ of George Craig.

W. J. Vesey, of Fort Wayne, was in town the past week and while here did some missionary work in the interest of the Florists' Fire Insurance Co., of which he is the secretary. A local agent is, we believe, to canvas the florists of this vicinity and urge upon them the necessity of their co-operation if they desire to get this cheap protection.

J. G. Eisele and family arrived home from Europe by the steamer Fuerst Bismarck on Friday of last week, and report a very pleasant vacation. K.

Denver.

A SEASON OF TRIAL AND TRIBULATION FOR COLORADO FLORISTS.—TRADE HAS BEEN EXCELLENT BUT STORMS HAVE PROHIBITED GOOD STOCK.—WILMORE'S DAHLIAS.

A cold, late spring, an unusually hot summer and the most remarkable freaks in the way of cloudbursts and hail storms have been experienced in Colorado this season, and florists who have not suffered a loss are the exception. The first storm, about a week before Memorial Day, swept the northwest part of the city and made Riverside Cemetery a dismal waste. Three weeks later a very disastrous storm struck south of the city, wholly demolishing the greenhouses of the Gallup Floral Company and Albert O'Brien. Not only was glass broken but much stock was ruined.

This will explain why many of our growers are in no position to boast of their carnations and shows why we are short of stock. The poor little roots have not had time to get much top and consequently there is but little more than half of the usual supply in the market. Everything seems to be late, although several establishments have unusually fine plants and will soon come to the front with an abundance of flowers.

The summer's trade has been good. The biennial convention of women's clubs started the ball rolling and has been followed by one convention after another through the entire summer. The autumn has brought many weddings and a shortage of flowers. Clematis and hops have been very effectively used on these occasions and W. W. Wilmore, our dahlia specialist, of whom we are justly proud, has furnished many thousand various colored blooms to help out the decorations. At the banquet of the National Editorial Association the tables were strewn with the choicest of his productions, many of them seedlings which have attained unusual brilliancy under the influence of Colorado's famous sunshine.

C. R. G.

Chicago.

AN UNFAVORABLE WEEK. — TOO MUCH POOR STOCK AND HARDLY ENOUGH GOOD BLOOMS TO SUPPLY A LIGHT DEMAND.—THE FIRST CHRYSANTHEMUMS BRING A GOOD PRICE.—SIEBRECHT'S FIRST CHICAGO PLANT AUCTION.—HORTICULTURAL SOCIETY'S PLANS.—JOTTINGS.

This has not been a good week in the local markets. The demand for stock has not been as brisk as was expected and first-class stock has been scarce, although poor flowers have been in such quantities that the sidewalk dealers on State street have had a busy week. The result has been that really fine blooms commanded somewhat increased prices but cheap stock was cheap indeed.

It is told of one grower that his daily consignment of roses was assorted into six lots which were disposed of at from 50 cents to $4 per 100. Only Kaiserin, and very good ones at that, however, were capable of exchange for 4 cents. Brides, Bridesmaids, Perle and Meteor were worth from $1 to $3, with the bulk of the stock handled by the retailers going at a figure midway between the two. American Beauties are coming in more numerously each day, but the bulk of the cut is only equal to $1.50 per dozen, while many short stemmed, wide open flowers have passed into the fakirs' hands this week.

Carnations have been plentiful enough had the quality been first-class, but there were very few really high grade blooms, and those of very ordinary attainment sold for $1 a hundred. Lily of the valley is scarce and brings a fair price, $4 to $5 per hundred.

The first chrysanthemums of the season were cut September 15, by Anton Then, who, with Weber Bros., is growing 15,000 plants, all single stemmed, for J. A. Budlong. They were the Lady Fitzwygram variety, three inches in diameter and the cut, about five dozen altogether, went to a South Side retailer at $2 per dozen. Weber Bros. have a splendid lot of plants, including all the popular varieties, and their cut will soon be continuous.

The regular meetings of the Florists' Club were resumed Friday of last week at 8:45 p. m., with Edgar Sanders in the chair. The thanks of the club were unanimously extended to the Nebraska and Iowa Florists' Club for the courtesies of convention week. There was some complaint of the lack of badges on the part of those who attended the Omaha convention, one member remarking that gentlemen of the local club were like lost sheep and that Brother Wilcox had to use a ribbon of his own to distinguish them from Coxey's army. Alex. Henderson, of Vaughan's Seed Store, was elected a member. Mr. Sanders was requested to invite Mr. E. Buettner to give an account of his recent trip to Europe at the next meeting. The election of officers will occur in November.

The Chicago Horticultural Society, which has planned its chrysanthemum show for November 8–12 and promulgated a preliminary list offering $2959 in premiums, is in search of a suitable hall for the exhibition. The previous shows have been held at Battery D, which has been demolished. The society is in the best of condition financially and every indication points to a remarkably successful show this year.

Miller & Schneider had a vase of Milla biflora on exhibition this week. It is a hardy bulbous plant with small cup or bell shaped blooms, the samples of which came from Mexico. Had it any of the desirable characteristics of a cut flower it would hardly gain popular favor at this time as it is named for J. Milla, a gardener at the Spanish court in Madrid.

J. Austin Shaw is a busy visitor this week, preparing for Siebrecht & Son's auction sale of palms, ferns, orchids, crotons, etc., to be held at 114–116 Wabash avenue Monday, September 26, commencing at 10 a. m. sharp. John P. Cleary, of New York, will conduct the sale.

The sale of carnation plants has been going on apace. The growers who had a surplus have found a strong demand and many varieties are now hard to obtain. Scott has sold particularly well. Although early planting has been the rule there are yet many establishments where the work is still progressing.

The greenhouses at Morton Grove formerly owned by W. H. Mueller and later by A. Wintermute, are now the property of Paul Kreismann. The establishment comprises thirteen houses, 30,000 feet of glass, and has been put in excellent shape. Mr. Kreismann's city address is 27 Market street.

Emil H. Mack, a former employe of Kennicott Bros., and recently a street flower dealer, was found dead in bed at 2128 State street, September 17. He had been asphyxiated by gas. Mr. Mack was 40 years of age. His home was at Columbus, O., where his father was a state senator for ten years.

The shortage in Dutch bulbs has, as had been expected, resulted in an increase in prices and is now aided and abetted in this by the heated condition in which several consignments have reached Chicago this week.

The Stollery Bros.' Argyle carnation, bright rose, of recent introduction, is selling well again this fall and has made a fine growth for those who have planted it in this vicinity.

Paul Berkowitz, representing H. Bayersdorfer & Co., of Philadelphia, was in town this week. Other recent visitors were T. W. Ball, of the Cincinnati Cut Flower Company; L. H. Reed, of Grand

Rapids; John Schneider, Kansas City.

Last Thursday lightning struck the smoke stack at Garland Brothers' establishment at Des Plaines, and threw bricks for a distance of 200 feet, breaking glass and otherwise doing considerable damage.

The Stanmeyer sisters have opened a retail store at 273 Lincoln avenue and the Art Floral Company, which has several other stores, one at 82 State street, their first venture down town.

Although the Chicago Chrysanthemum Committee will not resume its sessions until October, it has already received a seedling sent by J. A. Carbone, of Berkeley, Cal.

E. H. Hunt was in town for a day or two this week between his Wisconsin trip and an expedition to Indiana.

Emil Buettner and family reached home from Europe on Monday. They enjoyed their trip thoroughly.

O. J. Friedman has secured the contract for the erection of the fifteen Memorial arches for the Peace Jubilee.

Washington.

RETURNING SOLDIERS ARE WELCOMED WITH GARLANDS OF FLOWERS.—PATRIOTIC FLORISTS.—TRADE ABOUT THE SAME.—LOOSE BLOCK IS DAMAGED.—W. R. SMITH CONVALESCES.

On September 9 we had one of the grandest floral fetes here that possibly ever happened. It was the home coming of the District of Columbia Volunteers from Santiago. All the florists of Washington joined in a spontaneous response to a call from the chairman of the reception committee, to shower the heroes with flowers. Under the chairmanship of J. H. Small, Jr., assisted by all the florists except two, each of the seventy officers was presented with a wreath thirty inches in diameter of laurel, with gladioli and red, white and blue ribbon. Major Harries was presented with a similar wreath, only larger and trimmed with orchids, while each of the 700 soldiers was presented with a bouquet of roses. A wagonload of flowers was strewn in their path as they marched up Fifteenth street past several thousand school children singing "Home, Sweet Home" as they threw the flowers under the feet of the soldiers. The parade marching up Pennsylvania avenue with the 700 bouquets in the air on the ends of the guns was a scene never to be forgotten. There were more than 1200 yards of No. 12 red, white and blue ribbon used, all of which was donated by the merchants through a committee of florists consisting of C. F. Hale, W. Crawford and Wm. F. Gude. Every flower and all work connected therewith was donated by the florists. The next day a handsome box of cut flowers was sent to every sick soldier with the compliments of the florists of Washington. The liberality of the florists on this occasion has been the source of much gratifying comment by the public, and no doubt will do much toward fostering the love for flowers.

Trade in general remains about the same as in previous years, there being a very limited supply of flowers to do business with since asters are gone. Roses and carnations are both scarce.

The handsome store of J. Louis Loose was considerably damaged by fire in the very early morning of September 20, caused by the burning of the seven-story clothing store on the opposite corner, the intense heat from which set the Loose building, which is four stories high, in flames from cellar to roof and breaking every pane of glass on the Twelfth street side.

W. R. Smith has so far recovered as to be able to be around again attending to his duties, although very weak as yet.

Visitor: Chas. D. Ball, of Holmesburg, Pa. P.

St. Louis.

STOCK AND MARKET CONDITIONS.—THE FAKIR ARRIVES.—BOWLERS JUBILATE AT THE HOME OF THE BEYER BROTHERS.—SOUNDS OF REVELRY BY NIGHT.

Business, which had picked up quite noticeably, has fallen off again. The Exposition opened last week; the streets present quite an animated appearance compared with their summer dullness, and steady cool weather is all that the florists are asking for to open what promises to be a prosperous season. Stock coming in shows the effect of the warmth. Perle, Meteor, and the other single roses come in badly opened and soft; Bride and Bridemaid are holding their form much better. Carnations are still scarce and are bringing ridiculously high figures for the quality of the stock offered. The fakir made his appearance on the streets the other day handling roses. It appears he has commenced early in the season and expects to stay with us during the coming winter.

A most enjoyable evening was spent by the bowlers and their friends at the greenhouses of the Beyer Brothers last Saturday evening, when the celebration of the winning of the Evans Cup was consummated. Music and feasting were the principal attractions and they were both excellent. The Alpine Mandolin Club outdid itself in its endeavors to deserve the hearty appreciation of its auditors. After the feasting, sketches, songs and other amusements were in order, and under the benignant rule of "Doc" Helwig, who was master of ceremonies, the strong points of each participant were fully developed. Frank Fillmore rendered Annie Laurie in his own inimitable style. Benecke, "Our Jule," did not tell us of St. Peter's experiences, as he did on the ride into Omaha from Krug Park, after the battle of the bowlers, but he told us several things that will rank with his former effort. The Beyer boys sang several German selections and the others all did their share. A pleasant and unexpected feature of the event was the serenade tendered by the Pandanus Mandolin Club, which is composed entirely of employes of the Beyer Bros., and the boys all had such a good time that they very nearly forgot to go home that night.

The bowling club meets every Monday night and next week three new members are to be welcomed. R. F. T.

St. Paul.

STOCK IS FAIR BUT HARDLY EQUAL TO THE DEMAND.—NIGHT FIRING NECESSARY.—CHRYSANTHEMUMS ARE IN AND THE VIOLET CROP IS NEARLY READY.—A WEDDING ORDER.—NOTES OF PERSONAL HAPPENINGS.

Trade during the month has fluctuated with the weather and stock has been governed by the same conditions. The demand for flowers of all kinds is now very good.

In the line of cut flowers Meteors are the most abundant and finer stock was never brought into our market. Perle and Sunset are also in good form and demand. Bridesmaid, Testout, Kaiserin and Bride are scarce. Beauties are more popular than ever, with an inadequate supply of good blooms.

In carnations the scarcity is very noticeable. All small white flowers are very scarce, the unusual demand for funeral work being the chief cause of the shortage. Disease seems to have destroyed all outside grown asters. Mendenhall, of Minneapolis, has an exceptionally fine house of asters grown on benches, the stems long and stiff with perfect blooms.

Night firing is now a necessity but we hear of some mildew in the houses of those who think they can do without heat. Growers should use extra care and not begrudge a few pounds of coal.

L. L. May & Co. have some Fitzwygram chrysanthemums ready to cut.

John Nilsen expects to commence cutting violets October 1.

E. F. Lemke's new store on West Sixth street is fitted up in modern style and now open for business.

A recent wedding at Minneapolis was the occasion for a splendid floral display. Mendenhall had the contract for the decoration, one of the finest and most extensive ever seen in this section. The C. A. Smith Floral Company made the bouquets, the bride's consisting of twenty dozen Kaiserin roses and the others being of the same generous proportions.

John Vasatka, of Minneapolis, has sold out and will retire from business.

Gus Ganly, who formerly conducted a florist stand in this city and a store for a short time, was recently accidentally killed by the cars in Minneapolis.

John A. May was severely injured by being thrown from his bicycle a few weeks since. He is now able to be about with the aid of crutches.

Carl Johnson, clerk in L. L. May's retail store, was badly hurt in a collision recently and is still laid up at home.

Paul Berkowitz, of Philadelphia, made us a pleasant call on his return trip from California.

S. B. Dicks and J. Comont, of London, England, were recent callers. FELIX.

FRANKFORT, IND.—H. M. Humfeld has been adding one house for carnations.

BURLINGTON, VT.—A. Gebicke has bought the establishment of William Lee and will conduct the business hereafter.

ELWOOD, IND.—Wm. Woerner, successor to M. E. Good, reports trade very satisfactory. He recently had an order for a $75 floral piece which was very creditably executed.

CHEWS LANDING, N. J.—Wm. Entricken is moving his hothouses to a tract of land which he has purchased here and will increase his facilities for doing a large trade.

TOLEDO, O.—W. F. Konker died September 11 from the effects of drinking by mistake from a bucket containing a Paris green mixture which he had prepared to spray his plants.

PADUCAH, KY.—Robert E. Rudolph, who has been with Brunson & Co., has gone to Louisville to enter the employ of C. W. Reimer & Co. His brother Guy will soon follow him.

SPRINGFIELD, MASS.—The palm swindler, whose appearance in various sections of the country seems almost like the Will o' the wisp, has turned up in Springfield and his clever dodge was worked on Aitken & Son on Thursday of last week.

WEST CHESTER, PA.—The third floral exhibition of the Chester County Flower Association was held at Cloverly Farm on September 17. The prizes included some very beautiful articles and the display of plants and flowers in competition was large and attractive.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00. Subscriptions accepted only from those in the trade.

Advertisements, 10 Cents a Line, Agate $1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

CARNATIONS recently planted should not remain too long without stakes or other supports.

IT is none too early to get soil in such shape that it can be readily made use of for potting purposes in winter and spring.

WHILE plans are being matured for the season's campaign, it will be well to remember that Easter falls on April 2 next year.

TENDER stock being housed, that repair glazing should not be too long deferred and the heating apparatus may still need some attention.

THE Lord & Burnham company is now engaged in the construction of greenhouses in fifteen cities between the Atlantic and the Mississippi.

THEY learn best to improve varieties who learn first that new sorts which, after a fair trial, show no improvement on existing types should be taken to the rubbish pile.

FIRING has begun. There are fires and fires, and there is also the Florists' Mutual Fire Insurance Company, whose policy, for some amount, should be written on your place *now*.

SUCH spring bedding stock as pansies, forget-me-nots, silene, daisies, etc., can be safely wintered in cold frames, if well protected during severe weather. The plants should be well established in the frames before hard frost sets in.

"THIS seems to be a season of growth depression the world over," says James Sproule, the San Francisco seedsman. "Growth depression" is a good phrase. We have needed this; it appeals to him who grows and the seedsman who contracts; it is also full of meaning. The coining of such a fitting expression is a recompense these troublesome times. And why should it not prove useful to the flower grower? For example: It shrinks the roses to half a crop at Christmas; it blights big batches of Harrisii; carnations won't open, or prematurely go to sleep; Beauties, under its baneful influence, abort, with insignificant stems and poor foliage. Need we illustrate further? "Growth depression" explains so many things, it must have come to stay.

Catalogues and Cut Flower Price Lists Received.

Seneca Nurseries, Geneva, N. Y., trees; Cherry Hill Nursery, West Newbury, Mass., pæonies; S. J. Baldwin, Seneca, Kans., cherries; Weeber & Don, New York, N. Y., bulbs and seeds; Siebrecht & Son, Chicago, Ill., sale; Schlegel & Fottler, Boston, Mass., bulbs and plants; Harlan P. Kelsey, Boston, Mass., plants; Roustan Servan & Co., St. Remy de Provence, France, seeds; Wilhelm Pfitzer, Stuttgart, Germany, plants and bulbs; Holton & Hunkel Co., Milwaukee, Wis., cut flowers; S. S. Pennock, Philadelphia, Pa., cut flowers; Bassett & Washburn, Chicago, Ill., cut flowers; Cincinnati Cut Flower Co., Cincinnati, Ohio, cut flowers.

Society of American Florists.

MEMBERSHIP IN BOARD OF TRADE.

All members of the S. A. F. are herewith informed that by virtue of their membership in this organization they are entitled to membership in the National Florists' Board of Trade upon payment of an amount $2 less than the regularly authorized and advertised rates. Application for membership under this privilege should be made to Mr. C. S. Loder, secretary National Florists' Board of Trade, 271 Broadway, New York City, the applicant being prepared to show that he is in good and regular standing in the S. A. F., and the concession will also be available for past members of the Board, who, upon renewal, are members of the S. A. F. WM. J. STEWART, Sec'y.

PLANT REGISTRY.

Notice is hereby given that in accordance with instructions voted at the convention at Omaha, a Registry Book is now open at the Secretary's office and all persons having new varieties of plants to which they propose to give distinctive names are informed that said names, with full descriptions of the varieties to which they are given, may be registered in the office of the Secretary. Priority of notice shall be considered as securing to any applicant the exclusive right to the use of any name as applied to one variety of any particular species, it having been first ascertained, after due inquiry, that said name is not already in use as applied to any variety of the same species already introduced, and the rules of the society regarding such registration having been complied with. Upon the completion of such registration due announcement of the fact, together with full descriptive notes and details necessary for the identification of said variety, will be made through all American horticultural trade papers and the Society of American Florists will thereafter do all in its power to protect the privilege of the individual or firm making such registry to the exclusive use of the title as registered.

Parties desiring to take advantage of these provisions will please communicate with the Secretary and all information desired will be promptly given.

WM. J. STEWART, Secretary,
67 Bromfield St., Boston, Mass.

Greenhouse Building.

Greenfield Hill, Conn.—F. E. Perry, one commercial house.

Newton, Mass.—H. A. Mansfield, one commercial house.

Pittsfield, Mass.—John White, range of commercial houses.

West Grove, Pa.—E. Maule & Co., one greenhouse.

Adams, Mass.—T. D. Brown, one greenhouse.

Warren, R. I.—W. G. Arnold, one forcing house. George Barker, one forcing house.

So. Orange, N. J.—W. A. Manda, six commercial houses, each 12x70.

Philadelphia, Pa.—P. A. B. Widener, range of fifteen houses.

Tarrytown, N. Y.—Mrs. Schmid, range of greenhouses.

Greenwich, Conn.—E. C. Benedict, range of greenhouses.

Mamaroneck, N. Y.—F. A. Constable, large range of conservatories.

Northampton, Mass.—Dr. Winshaw, one conservatory.

Brooklyn, N. Y.—W. H. Foddy, one commercial house.

Gracefield, N. Y.—Hon. W. R. Grace, one conservatory.

Newton, Mass.—Mrs. C. T. Coburn, range of greenhouses.

Newport, R. I.—Perry Belmont, range of greenhouses. Elbridge T. Gerry, addition to present range.

Beach Bluff, Mass.—F. A. Esterbrook, addition to present range.

Boston, Mass.—Forest Hill Cemetery, range of greenhouses.

Waterbury, Conn.—A. W. Young, one greenhouse.

Davenport, Ia.—Davenport Parks, two wings of palm house.

Pittsburg, Pa.—Jas. H. Park, one conservatory.

Chester, Pa.—Thos. F. Delahunt, one commercial house, 20x150.

Smithtown Branch, N. Y.—Stanford White, one conservatory.

Chattanooga, Tenn.—City park conservatory.

Hillsdale, Mich.—J. H. Ellis, one commercial house.

Salt Lake City, Utah.—Huddart Floral Co., conservatory and show house.

Newburyport, Mass.—E. W. Pearson, one carnation house, 20x125.

Colma, Cal.—Cypress Lawn Cemetery, palm house.

Coming Exhibitions.

[*Secretaries are requested to supply any omissions from this list.*]

BOSTON, Nov. 8-11. Chrysanthemum show, Massachusetts Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

BUFFALO, N. Y., Nov. 9-11.—Chrysanthemum show, Buffalo Florists' Club. Wm. Legg, Sec'y, 1440 Delaware Ave.

CHICAGO, Nov. 8-12. Chrysanthemum show, Hort. Society of Chicago. Willis N. Rudd, Ass't Sec'y, Room 202, 185 Dearborn St.

HARTFORD, CONN., Nov. 8-10. Chrysanthemum show, Connecticut Hort. Society. C. M. Rodgers, Sec'y, Beacon St., Hartford.

INDIANAPOLIS, Nov. 8-12. Chrysanthemum show, State Florists' Association of Indiana. R. A. McKeand, Sec'y, Garfield Park, Indianapolis, Ind.

MORRISTOWN, N. J., Nov. 1-2. Annual Exhibition, Morris County Gardeners' and Florists' Society. C. H. Atkins, Sec'y, Madison, N. J.

NEW YORK, SEPT. 26-OCT. 8. Sixty-seventh fair, American Institute. Dr. F. M. Hexamer, 52 Lafayette Place, Chairman Committee on Agriculture and Horticulture.

NEW YORK, SEPT. 26-OCT. 1. Annual Exhibition American Dahlia Society, auspices of American Institute.

PHILADELPHIA, OCT. 18. Chrysanthemum show, contest for the C. S. A. cup, auspices of Pennsylvania Hort. Society. Edwin Lonsdale, Wyndmoor, Chestnut Hill, Philadelphia.

PROVIDENCE, R. I., Nov. 9-11. Chrysanthemum show, Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St., room 23.

ST. LOUIS, Nov. 14-18. Chrysanthemum show, St. Louis Florists' Club. Emil Schray, Sec'y, 4101 Pennsylvania Ave.

TORONTO, Nov. 9-12. Chrysanthemum show, Toronto Gardeners' and Florists' Association. E. H. Carter, Sec'y, Riverside Park, Toronto.

WACO, TEXAS, Nov. 10-12. Chrysanthemum show, Texas State Floral Society. Mrs. Louis Crow, Sec'y, Waco, Texas.

WORCESTER, MASS., Nov. 8-9. Chrysanthemum show, Worcester County Hort. Society. Adin A. Hixon, Sec'y, Horticultural Hall, 18 Front St.

Our Trade Directory.

No wholesale dealer in plants, seeds, nursery stock, heating apparatus or florists' supplies can afford to do business without the American Florist Company's Trade Directory. This handy volume of 351 closely bound pages lists every dealer in the business and contains classifications and other information of great value. It is sent postpaid for $2. Bound in flexible and durable leather, handy for the pocket, $3.

Boston.

BUSINESS DULL.—STREET FAKIRS MISSED FOR TWO DAYS.—HORTICULTURAL EXHIBITION.—FINE DIPLADENIAS.—LOCAL NOTES AND VISITORS.

Business has fallen off somewhat during the past week. Flowers have accumulated in wholesalers' hands in a discouraging sort of way, largely on account of a temporary interference with the outlet through which a much larger proportion of the medium quality stock passes than is generally realized. Unlike New York, where the Greeks control the street trade, Boston supports a large fakir contingent which is almost exclusively composed of young Jews. The observance of the annual Jewish holidays took these enterprising traders off the street for two days and the result was that large quantities of roses and carnations were left without a market.

Carnations in pink shades such as Scott and Daybreak are in demand and the supply of flowers of acceptable quality is not equal to the call. White carnations are more plentiful and buyers are not so fastidious in regard to the quality of these as of the colors, white being used mainly for mass work. Roses are small as a rule, the great bulk going for low figures, top values being obtained for but a very small percentage of choice selection.

On Saturday last, George McWilliam showed, at Horticultural Hall, a set of lovely seedling dipladenias, which he is an adept in growing. These were in several shades of pink and deep cherry and of fine size. One, the gem of the lot, he has named Elsa Whitin and for this honorable mention was given. It's color is pale blush flushed with deeper tint and a well marked circle of pink in the throat.

Other interesting exhibits came from Jas. Comley who showed a large variety of cut flowers. Mrs. Richards and Miss Doran with perennial asters, Lothrop & Higgins with a magnificent collection of eighty sorts of cacti and decorative dahlias, J. D. Colan cockscombs and Rea Bros. hardy perennials.

On Wednesday, September 21, Edward Hatch sold at auction a big consignment of palms, rubbers, araucarias, etc., from R. Dreyer, of Woodside, N. Y

The Houghton Horticultural Society of Lynn visited the grounds of H. H. Hunnewell on Thursday, September 15.

The report of the Massachusetts Horticultural Society for the last half of the year 1897 has just been received.

W. E. Doyle is making improvements in his Tremont street store.

Visitors: A delegation of Fall River's most distinguished florists under the leadership of C. Warburton and George Smith; C. F. Gibbs, St. Johnsbury, Vt.

W. E. Coburn has leased the greenhouses formerly occupied by A. W. Buell, 131 Chelsea street, Everett.

D. A. Taylor, a swindler who victimized several Boston florists, has been apprehended through the shrewdness of a boy employed by Max Brothers.

Notes and Comments.

It is never safe to take too much for granted, nor should we jump to conclusions, nor make positive statements unless they can be backed up by facts. I am reminded of these precautions after reading in a recently issued publication about flowers for amateurs where it is stated that the flowers of the Chinese primrose (Primula Sinensis) "Are about the size of a silver quarter as a general thing. Some are as large as a half dollar."

Some twenty years or so ago the writer of this was privileged to read a paper upon this popular greenhouse and cool room dwelling house flowering plant before the Germantown Horticultural Society, and in the course of the remarks made, said in effect that when the Chinese primrose was introduced the flowers were about the size of a nickel, now they were as large as a silver dollar. After the publication of the paper in the *Gardener's Monthly*, it was interesting to receive so many letters from various parts of the country inquiring where seed producing such large flowers could be obtained; and a florist friend visiting our greenhouses about the same time, when we were alongside the primroses then in bloom and the question of circumference was broached, volunteered the proposition to "Let's try a half dollar first," and suiting the action to the word, found, as anybody else will find who has tried the same experiment, that there was quite a deep frill around the silver half dollar after it was carefully arranged over the face of the flower.

I am afraid that the writer who made the statement commented upon has depended upon his eye entirely and guessed at random and written accordingly, not taking the trouble to find out whether he was promulgating a correct statement or not. If Chinese primrose flowers were as large as a silver dollar twenty years ago they ought, with the improvement constantly going on, to be somewhat larger than that to-day. I like the use of that kind of illustration to convey ideas if used correctly, but when used haphazard are much worse than the using of the measuring rod. It seems rather remarkable that similar illustrations should be used by two different people upon the same subject at an interval of twenty years and yet be so widely at variance, especially when the difference of statement indicates that a diminution in size has taken place within that time, when we are reasonably sure there has been an advance in size as well as form and color in this popular class of flowering plants.

E. L.

TROY, N. Y.—The palm swindler attempted his game upon G. T. Sambrook & Son but was detected, although not apprehended.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By young man: 8 years' experience with large growers: good private or commercial place. A No. 1 references. Address
P A B. 118 So 8th St, Philadelphia.

SITUATION WANTED—By a married man, one child four years old; wife to do housework for board. Good all around man. Address
CAPABLE, care American Florist.

SITUATION WANTED—By competent lady florist of 12 years' experience; position in store, an up-to-date designer and cut flower worker. State wages.
I M COATES, 122 S. Spring St., Lexington, Ky.

SITUATION WANTED—By thorough, experienced florist and designer as foreman; No. 1 rose grower; carnations, 'mums, violets, specialties Commercial or good private position. G. Box 547, Alliance, O.

SITUATION WANTED—As foreman by a first-class up-to-date grower, good in all branches of the business; only first-class place wated. Wages $75 per month, open now or next spring Address
FOREMAN, care American Florist.

SITUATION WANTED—As foreman for a large commercial place. Thoroughly experienced in growing roses and carnations for the wholesale trade; single, 32, (Ohio preferred); salary $30 per month. Address GROWER, care American Florist.

SITUATION WANTED—By a landscape gardener and florist, German, single: 14 years' experience in flowers, vegetables, fruits, care of pleasure grounds and hot houses; position in private park or gentleman's place, in city or country. Sober and reliable. Address 50, care American Florist.

SITUATION WANTED—By first-class grower of roses, 'mums, carnations, etc.; German, 35 years old, married no children. Position as working foreman on good commercial place. Sober, industrious, not afraid of work; 20 years' experience in Europe and America. West preferred. P G, care Am. Florist.

WANTED—Single man capable of growing roses, carnations and 'mums. Steady place
C. L. BRUNSON, Paducah, Ky.

WANTED—An active man for general greenhouse work. Wages $40 per month (married man preferred). Address A H B, care Am. Florist.

WANTED AT ONCE—A first-class decorator and maker up. One who can grow palms, ferns, etc. Address A L. THRALL, Jamestown, N. Y.

WANTED—A good florist and designer. Would sell a half interest; a married man preferred. A dwelling house on premises. Address
F. E CARTER, Shreveport, La.

WANTED—Florist who is capable of growing roses, carnations and 'mums; must be first-class and single; state wages wanted with room and board.
NICHOLAS AMOS, Crestline, O.

WANTED—A good man for palms, ferns, orchids and general greenhouse work; must be competent References required. Address
H. F HALLE, 548 W. Madison St., Chicago, Ills.

WANTED—Young man as assistant in retail florist store; must have a general knowledge of the florist business. Address with references.
H. F. HALLE, 548 W. Madison St., Chicago.

WANTED—At once, a man used to roses and carnations, fire steam boilers and do general work. State experience; wages $36 per month without board. Address WM. KIRKHAM, Maywood, Ill.

WANTED—Assistant foreman who is capable of growing roses, carnations and general greenhouse stock. Wages $20 per month and board. Steady place. Address M 1, care Am. Florist.

WANTED AT ONCE—A good all round man; must understand growing roses and carnations, also pot plants. $20 per month and board. No drinking man need apply. Address
GEO. W GASKILL, Warren, Ohio.

WANTED AT ONCE—A good all-round man; must understand growing palms, ferns and pot plants. Only sober, reliable man need apply; state wages. Address L G. PFUNDER,
427 Washington St., Portland, Ore.

FOR SALE—Four greenhouses, near y new. Good retail stand. A. CLAUS, Springfield, Ill.

FOR SALE—A No. 117 Gurney hot water heater in good condition; $35 00.
Box 428, South Weymouth, Mass.

FOR RENT—Two greenhouses to rent to a sober and reliable married man. Address
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FOR SALE—On account of poor health, one of the best places in Northwestern Ohio: houses new and stocked throughout: will stand investigation. Address BARGAIN, care American Florist.

FOR SALE OR RENT—Good retail stand, 5000 feet of glass (new), has never paid less than $1300 per year net. Must buy stock. Reason for quitting, failing health. Address ILL, care Am. Florist.

FOR RENT—To reliable party, 11 greenhouses, 16,000 ft. glass, newly rebuilt last year; also store, 7-room house and barn. Business established 15 years. Finest location in Chicago. Or will sell greenhouses separate. Cause, poor health. Address
GARFIELD PARK FLORAL CO.,
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FOR RENT

A florist's establishment consisting of five greenhouses, dwelling and stable; all in first-class order; situated in Frankford, Phila. Apply to

JACOB PRINCING,
Torresdale, Philadelphia.

FOR SALE.

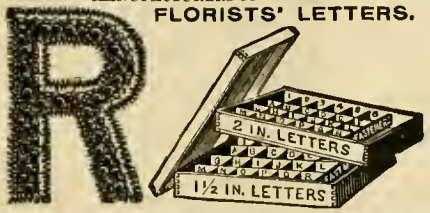
Greenhouse business in Illinois, city of 15,000 population, 120 miles from Chicago; practically no competition. Reason for selling, poor health. Address.

W H G. care American Florist.

If you write to any advertiser anywhere mention the paper in which you saw the ad. Both publisher and advertiser will like you better for it.

Boston Florist Letter Co.

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FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.
Script Letters, $4. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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84 Hawley St., BOSTON, MASS.

Mention the American Florist.

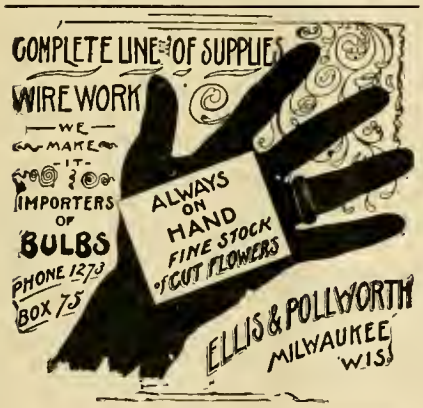
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H. BAYERSDORFER & CO.

Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

New Catalogue of all FLORISTS' SUPPLIES on application. For the trade only.

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50, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

Pittsburg Cut Flower Co. Limited

705 Penn Avenue, PITTSBURG, PA.

...WHOLESALE CUT FLOWERS...

Long Distance Phone 2157. Consignments of Choice Cut Flowers Solicited.

When writing mention American Florist.

Wholesale Flower Markets

CINCINNATI, Sept. 22.

Roses, Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 4.00
" Perles	2.00
Carnations	.75@1.00
Tuberoses	3.00
Lily of the valley	4.00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00
Asters	.75@ 1.00
Common ferns	.15

ST. LOUIS, Sept. 22.

Roses, Beauties	3.00@15.00
" Meteors	2.00@ 5.00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	2.00@ 3.00
" Kaiserins	2.00@ 6.00
Carnations	1.00@ 2.00
Asters	1.00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Tuberose spikes, single and double	4.00

MILWAUKEE, Sept. 22.

Roses, Beauties, per dozen	.50@2.50
" Brides, Bridesmaids	2.00@ 4.00
" Perles	2.00@ 4.00
" Meteors	2.00@ 5.00
" Kaserins	2.00@ 5.00
Carnations	.75@ 1.25
Gladioli	2.00@ 3.00
Smilax	12.50@15.00
Adiantum	.50@ 1.00
Common ferns	.20
Asparagus	50.00

BUFFALO, Sept. 22.

Roses, Beauties	5.00@20.00
" Brides, Bridesmaids	2.00@ 6.00
" Meteors	2.00@ 6.00
" Perles, Niphetos	1.00@ 3.00
" Kaiserins	2.00@ 6.00
Carnations, ordinary	.50@ 1.00
" fancies	1.00@ 2.00
Lily of the valley	4.00@ 5.00
Smilax	10.00@15.00
Album rossum lilies	5.00@ 6.00
Asters	.50@ 1.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Gladioli	1.50@ 3.00
Hardy Ferns	per M, $1.50
Tuberoses	2.50@ 3.00

LOUISVILLE, Sept. 22.

Roses, Beauties, per dozen	.75@2.00
" Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" Kaiserins	2.00@ 4.00
" Perles	1.50@ 2.00
Carnations, fancy	1.25@ 1.50
" common	1.00
Mignonettes	.25
Smilax, per dozen	1.25@ 2.00
Adiantum	.75@ 1.00
Asparagus, per string	.50
Dagger ferns	per M, $1.00
Fancy "	" 1.50
Asters	1.00@ 1.25

Hardy Cut Ferns!

SPHAGNUM MOSS, 40c BBL.

Bouquet Green, Galax Leaves, Laurel Roping, &c. &c. Everything in green line always in stock at

H. E. HARTFORD'S, 18 Chapman Place, BOSTON.

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GALAX LEAVES,

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will open on OCTOBER 1st with a full line of

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Consignments of First-Class Stock solicited.....

The Pittsburg Florists' Exchange,
444 6TH AVENUE,
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GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

WM. F. KASTING WHOLESALE COMMISSION FLORIST....
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CHICAGO

PRICE LIST

	Per 100
Brides, Bridesmaids, Meteors	$2 to $3
Perles	$2
Kaiserin	$3 to $5
Carnations	75c to $1
Carnations, fancy	$2
Valley	$4 to $5
Tuberose Spikes	$5 to $6
Asters	75c to $1
Asparagus, per string, 40c to 50c	
Smilax	$10 to $12 50
Common Ferns, per 1000, $1.50	20c
Adiantums	50c

If we do not list what you want, write us.

V. M. & W.
Wholesale Florists
47 Wabash Avenue, CHICAGO.

E. C. AMLING
Wholesale Cut Flowers
51 Wabash Avenue,
W. S. HEFFRON, Mgr. CHICAGO.

Wholesale Flower Markets

CHICAGO, Sept. 23.

Roses, Beauties.....per doz.	.50@3.00
" Brides	2 00@ 4 00
" Kaiserins	2.00@ 5.00
" Bridesmaids	1 50@ 4.00
" Perles	1.50@ 3.00
Meteors	2.00@ 4 00
Carnations	1.00@ 2 00
Asters, common	.75@ 1 25
" fancy	1.50@ 2 50
Lily of the valley	4.00
Gladioli	2.00@ 3.00
Adiantum	.50
Common ferns	.20
Smilax	10.00
Asparagus	30.00@50.00
Tuberose spikes	3 00@ 5 00

There are buyers for all kinds of stock advertised in the American Florist.

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Wholesale Growers of CUT FLOWERS
600,000 FEET OF GLASS!
We can fill all orders on short notice with all leading varieties of Roses and Carnations.
We ARE Headquarters for Fine AMERICAN BEAUTIES. Give us a trial and convince yourself.
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Agents for the Hinsdale Rose Co. Special attention paid to shipping orders.
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FLOWERS at WHOLESALE....
.....ROSES, and a full line
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S. B. WINTER,
(Successor to WINTER & GLOVER,)
21 Randolph St., Chicago.
HIGH GRADE CUT FLOWERS,
PACKED RIGHT,
so they will reach you in just as good condition as they reach us.
WIRE DESIGNS: A Full Line. Write us for our Illustrated Catalogue.

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Wholesale Florists and dealers in Florists' Supplies
Special facilities for shipping south. Unequalled returns for good stock. Open night and day.
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Write for special quotations on large orders.

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Consignments Solicited. Special Attention Given to Shipping Orders.

HOLTON & HUNKEL CO.
SUCCESSORS TO
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Fresh Cut Flowers, Florists' Supplies
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The American Florist Company's Directory of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Price $2.00. In Flexible Leather Binding, $3.00. Fully revised to date with upwards of 3,000 New Names
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EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

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50 West 30th Street, NEW YORK CITY.

Choice Carnations Choice Roses

Traendly & Schenck

NEW YORK CITY

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Commission DEALER IN Cut Flowers,

44 WEST 29TH STREET,
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THE BEST MARKET IN NEW YORK.

'Phone 1307 38th St.

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The New England Headquarters for the best grade of flowers at all seasons of the year....

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112 and 114 West 24th Street,

Telephone 733—18th. NEW YORK.

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Special Attention Given to Shipping Orders.

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ROSES, CARNATIONS, VALLEY

and all other choice cut flower stock.

51 W. 28th Street, NEW YORK.

Price list on application.

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NEW YORK, Sept. 21.

Roses, Beauties	5.00@20 00
" Bridesmaids, Brides	1.00@ 3 00
" Morgans Perles	1 00
" Meteors, Kaiserins	1.00@ 4 00
Carnations	50@ 1 25
Lily of the valley	1 00@ 2.00
Smilax	10 00@12 00
Asparagus	40.00@50.00
Cattleyas	40 00@50 00
Asters	.05@ 1 50
Gladioli	.50
Adiantum	50@ .75

BOSTON, Sept. 21.

Roses Beauties	5.00@25.00
" Kaiserins	2.00@ 6 00
" Brides, Bridesmaids, Meteors	1 00@ 6.00
Carnations	.75@ 1 50
Lily of the valley	1.00@ 3.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00
Asters, common	.25@ .50
" Semple	.75@ 1 00

PHILADELPHIA, Sept. 21.

Roses, Beauties, per dozen	1 00@2 00
" Brides, Bridesmaids, Meteors	3.00@ 4 00
" Kaiserins	3 00@ 5.00
Carnations	50@ 1 00
Lily of the valley	3 00@ 4 00
Japanese lilies	4.00@ 6 00
Cattleyas	35.00@40 00
Smilax	12 50@15 00
Asparagus	35 00@50 00
Adiantum	1.00
Asters	.50@ 1 00
Tuberoses	1.00@ 3 00

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1612-14-16 LUDLOW ST.
PHILADELPHIA, PA.

FINE VALLEY ALWAYS ON HAND.

Asparagus Plumosus Nanus.

Strings 10 to 12 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

Now They're Cheap!!

FLOWERS, ALL KINDS

PLENTY OF THEM AT

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GALVIN & CO.

Wholesale Florists

AND DEALERS IN ALL

FLORISTS' SUPPLIES,

4 Ordway Place, BOSTON, MASS.

Cut Flower Consignments Solicited. Best market.

JAMES M. KING

Commission Dealer in

CUT FLOWERS.

Good Money for your Flowers.
Good Flowers for your Money.

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TELEPHONE 1675 38th St.

GEORGE A. SUTHERLAND,

Cut Flowers AND Florists' Supplies

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Wholesale Florists ALWAYS ON HAND CARNATIONS, BRIDESMAIDS, BRIDES.

JOBBERS IN FLORIST'S SUPPLIES.

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Horticultural Auctioneers.

84 HAWLEY STREET, - BOSTON.

One Good Flower

is worth fifty poor ones but is harder to find in summer.

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NEW YORK CITY.

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Wholesale Florist

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WALTER F. SHERIDAN,

WHOLESALE

FLORIST,

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Roses shipped to all points. Price list on application.

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JULIUS LANG

53 WEST 30th STREET
NEW YORK

CARNATIONS SMILAX

EDWARD C. HORAN,

34 W. 29TH STREET,
NEW YORK,

WHOLESALE FLORIST.

Careful Shipping to all parts of the country.
Price List on application.

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Wholesale Florist,

40 So. 16th St., PHILADELPHIA.

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DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.

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Ford Bros...

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Consignments Solicited. Telephone, 260 38th St.

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WHOLESALE COMMISSION,

408 E. 34th Street,

Cut Flower Exchange. NEW YORK.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

THE tomato seed crop is reported injured by blight.

BIDDERS on the government seed order are looking for surplus onion seed.

MINNEAPOLIS, MINN.—S. Y. Haines & Co., have opened their new offices at 105 Boston Block.

KANSAS CITY, Mo.—Wm. Markurth, of the Harnden Seed Co., is spending his vacation at Glenwood Springs, Colo.

THE many friends of Mr. W. Atlee Burpee will regret to hear of the very serious illness of his mother, Mrs. Burpee.

S. F. LEONARD contemplates giving up his mail catalogue department and confining himself to the wholesale and gardeners trade.

THE drought in France has seriously affected many of the crops which require two years to produce seed, beet, magnel, cabbage, carrot, etc.

VISITED CHICAGO: J. Comont, with Jas. Carter, Dunnett & Beale, London, Eng.; H. M. Clair, Jr., representing S. L. Allen & Co., Philadelphia.

THE warehouses of Messrs. Segers Bros., Lisse, near Haarlem, Holland, containing 80,000 guilder's worth of Dutch bulbs, burned August 30, and was a total loss. They were insured for 50,000 guilders.

THE shortage of Japan longiflorums is further increased by heavy loss from heating and consequent decay. The early shipments just in average a loss of from thirty-five to fifty per cent. When a case starts wrong the bulbs seem to go quickly and the entire case is soft on arrival.

SAN FRANCISCO.—Mr. Waldo Rhonert has been in town a few days. Mr. Chas. P. Braslan also came up from San Jose. The scarcity of onion seed is more apparent than ever. The engagement of Lester L. Morse, of C. C. Morse & Co., to Miss Pierce, of San Francisco, is announced. The business of the Sunset Seed and Plant Co. has been removed from No. 33 Market street to No. 821 Montgomery street.

NEW YORK, Sept. 23.—United States Appraiser Sharrats called for the attendance today of all parties protesting against advances made by the examiner of bulb invoices, and the response brought to his office thirty or forty representatives, of almost every importer in this section. It transpired that invoices are frequently faulty in failing to specify grade and quality of goods that would explain disparity in valuation. The appraiser ruled that when no size is specified on invoice the goods will be appraised as of first quality. Various rulings favorable to importers and otherwise were made. It was conceded that on all Dutch bulb stock the usual five per cent for cash be recognized as a legitimate discount on invoice when so specified in catalogue of exporter and the invoice. In many cases it would appear that the examiners are making large importers (who understand market conditions and buy at close figures) pay duty on valuations based on invoices to small importers, together with the usual penalty for under valuation.

"Faultless and Unapproachable!"

As my old friend W. Edgar said last week in his Begonia advt., is a good description; I wish **TOBACCO STEMS** were a worthy subject for such elegant diction, but there is good, bad and middling, even in that prosaic item. My stems are guaranteed **absolutely fresh and strong**, and present low price is because short of storage. Advise hurry up to catch this exceptional offer. **$8.00 per ton**; half ton lots at same rate. **LEAF TOBACCO DUST**, the genuine article (not ground stems) $3.00 per 100 lbs. (10-lb trial bag 50c). Remit by check, P. O. O., Express M. O., or Reg. Letter. Stamps taken for small amounts.

G. C. WATSON

Bulbs
Raffia
Mushroom Spawn

Juniper and Walnut Sts.
PHILADELPHIA.

FRESH
Mushroom Spawn.

The BEST and most productive type of English Spawn. Quality and condition guaranteed.

G. H. R. is prepared to ship large quantities throughout the coming season. Lowest terms upon application.

G. H. RICHARDS,
MANUFACTURER
124 Southwark St., LONDON, S. E.

Will unknown correspondents please enclose London references.

The Only Machine
on the market for automatically filling and sealing seed packets.
The Brown Bag-Filling Machine Co.
FITCHBURG, MASS., U. S. A.

COLD STORAGE **VALLEY** ALWAYS ON HAND.

CASES of 2500 pips, extra quality, $25.00; per 1000, $12.00.
CASES of 3000 pips, good quality, $25.00; pe 1000, $10.00.

CLUCAS & BODDINGTON CO.,
501 & 503 West 13th St., NEW YORK CITY.

C. E. LARZELERE. JOHN DUNN, JR.

WM. LARZELERE & CO.
(Established 1866)
Custom House Brokers
Licensed under U. S. Laws.
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With correspondents in principal ports of U. S and Europe. All matters relating to Customs laws attended to on both Imports and Exports. Information given as to classification and values, and method of shipping goods to and from U. S. Florists can save time and money by consulting us in writing or person at our Philadelphia or New York offices.

HUSSA & CO.
CUSTOMS BROKERS
AND FORWARDERS,
66 Beaver St, - NEW YORK.
ESTABLISHED 1872.
All customs matters attended to.
Correspondence solicited.



TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

August Rölker & Sons
Supply the Trade
with Choicest Seeds, Bulbs and all Florists' Supplies; many choice Novelties offered for the fall trade. . . .
FOR LISTS ADDRESS
52 Dey Street, NEW YORK.

BURPEE'S
SEEDS
PHILADELPHIA.
Wholesale Price List for Florists and Market Gardeners.

Trade Sale--At Auction!
CONSISTING OF A LARGE QUANTITY OF
Palms, Cycas, Kentias, Dracænas,
Arecas, Latanias, Araucarias, Orchids,
And also other Decorative and Flowering Plants.
To be Sold at the Greenhouses of the Owner,
FREDERICK DRESSEL, Weehawken Heights, N. J.
On Wednesday, Sept. 28, 1898.
P. O. Address, Station 1, Hoboken, N. J.
Full Descriptive Catalogue and any information furnished on application to the owner or by the Auctioneers,
CLEARY & CO., 60 Vesey St., N. Y.

WANT TO BUY FERNS?

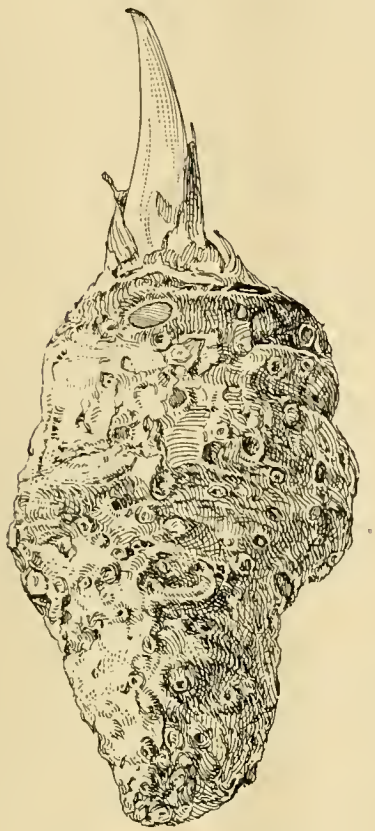
Mine is a splendid stock of over 200,000 plants in 2¼-inch pots comprizing 10 most popular kinds, $3.50 per 100; $30.00 per 1000. Fine assortment in 3 and 4-inch pots.

Nephrolepis Bostoniensis, from 3 to 8-inch pots. Nephrolepis Cordata Compacta Nana, the coming fern, from 3 to 6-inch pots. Cocos Weddeliana, large lot, 3-inch pots, fine stock, $12.00 per 100.

VICTOR CARNATIONS. 4000 strong plants from field.....$7.00 per 100
Wm. Scott, strong field plants.. 4.00 per 100

E. W. REDFIELD, Glenside, Pa.

When writing mention American Florist.



CALIFORNIA

Calla Bulbs

Through our Exchange Sales with best Pacific Coast growers of these roots we are able to deliver choice, carefully cured and evenly graded roots at closest growing prices.

	Doz.	100
FIRST SIZE, 1¼ to 1½-in. in diam.....	$.75	$5.50
SELECT, about 1½ to 1¾-in. in diam....	1.25	7.00
EXTRA SELECT, about 2 to 2½-in. diam.	1.50	10.00

ALSO READY:

ROMAN HYACINTHS,
P. W. NARCISSUS GRAND.,
DUTCH HYACINTHS,
TULIPS VON SION,
and a FULL LINE.

VAUGHAN'S SEED STORE,

CHICAGO: 84-86 Randolph St.
NEW YORK: 14 Barclay Street.

It is good business policy to mention the American Florist when you write to an advertiser.

THE
Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

The "GARDENERS' CHRONICLE" has been FOR OVER FIFTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, much of the information furnished is of such general and permanent value, that the 'GARDENERS' CHRONICLE" is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, $4.20 per year. Remittances to be made payable to H. G. COVE.

OFFICE:—
41 Wellington St., Covent Garden, London, England.

MÖLLER'S
Deutsche Gärtner-Zeitung

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription $3.00 per annum, including postage. Sample copies free.

Ludwig Möller-Erfurt.
(GERMANY)

THIS IMPRINT ON AN ENGRAVING
MANZ
CHICAGO

IS A GUARANTEE OF SATISFACTORY QUALITY.....

Manz makes illustrations for this paper.

THE WABASH R. R COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A.,
337 Broadway, New York City.
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5 State Street, Boston, Mass.
C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

Fire!! Fire!!

FLORISTS' MUTUAL FIRE INSURANCE CO.

Write now. Delays are Dangerous.

W. J. VESEY, Sec'y, - Ft. Wayne, Ind.

....AUTUMN 1898....

One Million

Flowering Shrubs; full assortment; all sizes.

Half Million...

Deciduous Trees for street, lawn and avenue planting.

200,000 Vines, Iris, Clematis, Actinedia and other sorts. Correspondence solicited.

THE WM. H. MOON CO.
MORRISVILLE, PA.

Out of Town Trade,

that oft absent feature that every florist covets, is gotten and readily held by means of **LONG'S FLORAL ART CATALOGUE....**

Its sixteen pages include Cut Flower list, ordering details, code, etc., and ninty-six Arrangements finely illustrated and priced. Exclusive in character.

Sample copy with price list, 25 c's. in stamps.

Dan'l B. Long, Publisher Buffalo.

Mention American Florist

ANTON SCHULTHEIS,

P. O. BOX 78,
College Point, Queensborough, New York, N. Y.

HEADQUARTERS

For Ericas (Heather); also full line of other Flowering Plants.

PALMS and DECORATIVE PLANTS IN QUANTITY.

Come, see and convince yourself.

FERNS! FERNS!

100,000 Commercial Ferns in the best varieties out of 2-in. pots, grown in cool houses and well-aired. No better stock offered at double the price; $2.50 per 100, $20.00 per 1000, $50.00 for 3000.

E. HIPPARD, - Youngstown, Ohio.

THE Regan Printing House

NURSERY SEED FLORISTS **CATALOGUES**

87-91 Plymouth Place,
CHICAGO

ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for the.....

"Horticultural Advertiser"

This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Address

EDITORS OF THE "H. A."
Chilwell Nurseries, - Notts, England

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

HON. A. L. BROOKE, president of the A. A. N., has been renominated by the republicans of his legislative district of Kansas.

IT is reported that nursery trade in Canada is more prosperous than in a number of years, although there is no large planting being done.

A COMMITTEE of the town council of Toronto has become disrupted over a proposition for the city to purchase 3,000 young trees for street planting. Bids will be asked for.

C. L. WATROUS, the Iowa nurseryman, writes that after ten years of extensive trial it must be said that, for the south half of Iowa at least, the experiment with Russian fruit has been not only a disappointment but a serious and costly failure.

FOR more than twenty years Prof. J. L. Budd has been preaching the excellence of the Telegraph grape, a variety the merit of which has been somewhat obscured by the report that it is identical with Christine, a statement which Prof. Budd characterizes as erroneous.

SEEDLESS grapes are destined to make a fortune for some nurseryman and in California great efforts are being made to produce such a variety. Two European grapes, the Corinth and Sultana, are seedless but are of such small size as to lose most of their value.

BEFORE the Civil war there were practically no nurseries in the south. J. Van Lindley, Pomona, N. C., calls attention to the fact that there are now fourteen nurseries in Alabama, thirty-five in Arkansas, ten in Florida, twenty-five in Georgia, ten in Mississippi, twenty in North Carolina, two in South Carolina, thirty-five in Tennessee, thirty-two in Texas and thirty in Virginia, or 213 in the ten states. A southern nurserymen's association is projected.

SIMCOE, ONT.—H. H. Goff has met with such remarkable success in gladioli culture and in general hybridizing that he is attracting wide attention.

ALEXANDRIA, IND.—Mr. Snetham has added one house for roses 10x100. The Muncie Floral Company, of Muncie, Ind., is putting in a branch here on Church street.

Trees and Shrubs.

We have an immense collection of **Trees, Shrubs, Vines** and **Herbaceous Plants.** Trees of small sizes for setting in nursery rows, or **large stock** for immediate effect. Trees of large sizes, 2 1-2 to 4-inch diameter, in large assortment.

Send for trade catalogue. Prices on large caliper trees given only by letter.

Thomas Meehan & Sons,
Germantown, Philadelphia, Pa.

J. H. H. BOYD
TREE and SHRUB, SEEDS and SEEDLINGS,
CAGE, Sequatchie County, TENN.
Send for price list.

SPECIAL OFFERS FOR 1898.

Our $50.00 per 1,000 Offer on Deciduous Shrubs.

An assortment of **TWENTY VARIETIES** (fifty each), purchasers' selection from Shrubs quoted in trade list at $4.00 to $7.00 per 100, will be furnished for **$50.00,** F. O. B. when cash accompanies order, otherwise packing charged at cost.

Our $75.00 per 1,000 Offer on Deciduous Shrubs.

An assortment of **TWENTY VARIETIES** (fifty each), purchasers' selection from Shrubs quoted in trade list at $7.00 to $10.00 per 100, will be furnished for **$75.00,** F. O. B. when cash accompanies order, otherwise packing charged at cost.

100,000 California Privet, 1 year, 2 years and 3 years.
5,000 Deutzia Gracilis, 12 to 15 inches, very fine for florists to force, $6.00 per 100; $50.00 per 1000.
10,000 Hydrangea Paniculata, different sizes.

Very Low Prices on Vines.

AMPELOPSIS VEITCHII, 1 year	$35.00 per 1000.
" " 2 years	50.00 per 1000.
ACTINIDIA ARGUTA, or Polygama, 1 year	8.00 per 100.
" " " 2 years	16.00 per 100.
CLEMATIS PANICULATA, from 3-inch pots	35.00 per 1000.
" " from 4 inch pots	60.00 per 1000.
" " open ground, 2 years, very strong	75.00 per 1000.
ENGLISH IVY, 1 year, open ground, strong	50.00 per 1000.
" " 2 years, very long vines	60.00 per 1000.
HONEYSUCKLES in variety, strong	60.00 per 1000.
WICHURAIANA ROSES, 1 year	48.00 per 1000.
" " very strong, 2 years	75.00 per 1000.

DECIDUOUS TREES.

An immense stock of Norway Sugar, Silver and Sycamore Maples, Purple leaved Beech, Cut-leaved Birch, Catalpas, Elms, Lindens, Horsechestnuts, Magnolias, Oaks and Willows.

OF INTEREST TO FLORISTS **EVERGREEN TREES** FOR WINTER DECORATIONS

We are specially prepared to supply florists with Evergreens suitable for winter decorations, either for window boxes, tubs or pots. We recommend the dwarf varieties of Arborvitæs and Retinosporas where a small or medium growth only is desired, and tall-growing Arborvitæs where larger sizes are preferable; either size plants are of perfect form and well furnished to the base. We solicit your orders for these.

PRICE LISTS ON APPLICATION.

THE WM. H. MOON CO.
MORRISVILLE, PA.

....SPECIAL INDUCEMENTS TO FLORISTS....
ON THE LARGEST STOCK OF
Ornamental Trees, Shrubs, Vines and Roses
IN THE UNITED STATES. WRITE TO US FOR SPECIAL PRICES.

W. & T. SMITH CO., Geneva, N. Y.
When writing mention the American Florist.

The New WHITE Blackberry
"ICEBERG"
I have 100,000 of them. Write for price.....
F. L. ATKINS, Orange, N. J.

FOR FALL '98 AND SPRING '99 DELIVERY
A SPLENDID ASSORTMENT OF
FIELD-GROWN HARDY ROSES
Clematis, Ornamental Shrubs and Trees, Pæonies, Herbaceous Plants, Small Fruits, Fruit Trees.
Special quotations gladly submitted by letter.
Jackson & Perkins Co. Newark, New York.

HARDY SHRUBS
Assorted in 25 Varieties.
My selection $50 per 1000. Descriptive catalogue and price lists for the trade.
SAMUEL C. MOON,
MORRISVILLE, - Bucks Co., PA.

CANNAS—Rambler Roses
From field for Fall delivery.
Also 30,000 SPIRÆA ANTHONY WATERER.
40,000 LOCAN BERRY TIPS.
The Conard & Jones Co., WEST GROVE, PA.

HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
JACOB W. MANNING,
The Reading Nursery, READING, MASS.
ESTABLISHED 1854.
Mention American Florist.

HEACOCK'S Offer of PALMS

ALL MEASUREMENTS GIVEN ARE FROM TOP OF POT, AND DON'T YOU FORGET IT.

ARECA LUTESCENS.

3 plants in	3-in. pot,	10 to 12 in.	high	$20.00	per 100.
3 "	4 "	15 to 18 "	"	25.00	"
3 "	5 "	20 to 22 "	"	50.00	"
3 "	6 "	22 to 26 "	"	75.00	"
3 "	8 "	36 to 42 "	"	$2.00 each	24.00 per doz.
3 "	8 "	42 to 48 "	"	2.50 "	30.00 "
3 "	10 "	48 to 52 "	"	5.00 "	
3 "	10 "	52 to 60 "	"	6.00 "	
3 "	12 "	5 to 6 ft.	high, very bushy	$10.00	each.

A few bushy specimens, 14 in. pots, 7 to 8 ft. high 25.00 "

My stock of this variety is very large, grown cool, clean and very healthy, and cannot fail to give satisfaction. All are grown three plants in a pot.

COCOS WEDDELIANA.

2 x 3-in. pot,	1 plant,	6 to 8 in.	high	$10.00	per 100.
3 x 3 "	1 "	8 to 10 "	"	15.00	"
3 x 3 "	1 "	12 to 14 "	"	20.00	"
4 x 3 "	1 "	15 "	"	40.00	"
5 x 3 "	1 "	15 to 18 "	"	50c each,	6 00 per doz.
5 x 3 "	3 "	15 to 18 "	"	50c "	6.00 "
6 x 3 "	1 "	28 to 30 "	"	1.50	each.

My stock of this beautiful variety is very large and in excellent condition.

KENTIA BELMOREANA.

3-in. pots.	4 to 5	leaves,	10 to 12 in.,	$3 per doz.,	$25 per 100		
4 "	5 to 6	"	15 to 18 "	6 "	50 "		
5 "	5	"	18 to 20 "	12 "			
6 "	6	"	18 to 20 "	15 "			
6 "	6	"	24 to 30 "	18 "			



LATANIA BORBONICA.

2-in.,	3 to 4	leaves,	60c per doz,	$4.00 per 100,	$35.00 per 1000
3 "	4 to 5	"	12 to 15 in.	high . .	10.00 per 100
5 "	5 to 6	"	18 "	$5.00 per doz.	40.00 "

I desire to thank my customers for past favors, and suggest that with increased facilities I am offering a larger **STOCK OF PALMS** and will be able to serve them better than ever before. My trade in the past has exceeded my most sanguine expectations, and with *prosperity smiling on our country* I bespeak a share of their patronage in the future. The palms offered are all home grown, strong and healthy. **The measurements given are from the top of pot to the top of plant, in its natural position.** I am particular to mention this, as some growers include the pot in their measurements, in other words, **include the length of the roots** with the height of the plant

TERMS: Unknown correspondents will please furnish satisfactory reference or cash with the order. All orders will be shipped by express, unless otherwise ordered.

JOSEPH HEACOCK, Wyncote, Pa.

THE FAULTLESS AND UNAPPROACHABLE WINTER FLOWERING BEGONIA

Gloire de Lorraine!

From 2½ to 6½-inch pots, 35c to $2.00 each. The largest stock in America.

——ALSO——

Adiantums Cuneatum, Tenerum and Farleyense and a good variety of Mixed Ferns for Ferneries.

——WRITE FOR PRICES——

Wm. W. Edgar WAVERLEY, MASS.

PALMS and FERNS

The Largest Stock of PLANTS IN THE WEST



GEO Wittbold 1708 N. HALSTED ST CHICAGO

A good adv. in a good paper will bring good returns.

Araucaria Excelsa (NORFOLK ISLAND PINE.)

We have an unusually large stock of fine plants of this beautiful decorative plant especially of the small and medium sizes, for which the demand is always certain.

4-inch pots,	6 to 8	inches	high,	2 to 3	tiers	each,	$0.60
5 " "	10 to 12	"	"	3	"	"	1.00
5 " "	15	"	"	3 to 4	"	"	1.25
6 " "	18	"	"	4 to 5	"	"	1.50

ARAUCARIA EXCELSA GLAUCA.

5-inch pots,		3 inches	high,	2	tiers	each,	$1.00
6 " "	12 to 15	"	"	3	"	"	1.50

ARAUCARIA ROBUSTA COMPACTA.

The finest lot of this grand variety we have ever been able to offer.

6-inch pots,	10 to 12	inches	high,	3	tiers	each,	$1.50
6 " "	12 to 14	"	"	3	"	"	1.75
7 " "	15 to 16	"	"	3	"	"	2.00
7 " "	16 to 18	"	"	3 to 4	"	"	2.50

CYCAS REVOLUTA (SAGO PALM.)

We have a large stock of Cycas, especially in medium sized plants, suitable for retailing for house decoration. All of these sizes are in very good condition and we are certain will give entire satisfaction.

Stems,	3 to 4	inches	high,	6 to 8	leaves,	each,	$1.00
"	4 to 5	"	"	8 to 10	"	"	1.50
"	5	"	"	12 to 15	"	"	2.00
"	6	"	"	12 to 15	"	"	2.50
"	6	"	"	15 to 18	"	"	3.00
"	8	"	"	18 to 20	"	"	4 00
"	8	"	"	20 to 25	"	"	5.00
"	12	"	"	25 to 30	"	"	7.50
"	12	"	"	25 to 30	"	"	10.00

					12 to 15 inches long	each,	$1.00
"	4 to 5	"	"	8 to 10	" 18 to 20 " "	"	1.50
"	5	"	"	12 to 15	" 18 to 20 " "	"	2.00
"	6	"	"	12 to 15	" 20 to 24 " "	"	2.50
"	6	"	"	15 to 18	" 22 to 26 " "	"	3.00
"	8	"	"	18 to 20	" 24 to 26 " "	"	4 00
"	8	"	"	20 to 25	" 24 to 28 " "	"	5.00
"	12	"	"	25 to 30	" 24 to 28 " "	"	7.50
"	12	"	"	25 to 30	" 30 to 36 " "	"	10.00

FICUS ELASTICA (RUBBER PLANT) FINE STOCK.

4-inch	pots,	10 to 12	inches	high	per dozen,	$4.50;	per 100, $35.00
5 "	"	15	"	"	"	6.00;	" 50.00
6 "	"	18 to 24	"	"	"	9.00;	" 70.00

For other Decorative Stock see our Current Trade List.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA, PA.

THERE ARE BUYERS

For all kinds of good stock advertised in

THE AMERICAN FLORIST.

OUR PASTIMES.

Gunners at Silver Side.

The Philadelphia Florists' Gun Club and the Claymont (Delaware) Gun Club met in friendly contest on the Penn Rock Co.'s greenhouse grounds at Silver Side, near Wilmington, on Saturday last. The agreement was for eight men on a side to participate, but two of the Philadelphians failing to come to the scratch, a six-team shoot was agreed upon. The result was: Claymont hit 104 out of a possible 150, and Philadelphia 113 out of the same number, the latter club thus winning by the small margin of nine "birds." It was nip and tuck all through the match, Philadelphia eventually winning out in a sort of Garrison finish.

Messrs. H. B. Jones and Robert Lockerbie, representing the Penn Rock Co., had a surprise in store for the shooters and their friends on their arrival in the most welcome, appetizing and bountiful luncheon, which the ride from Philadelphia and the surrounding country had fully prepared them for, and to which ample justice was duly done. The view from Mr. Trump's mansion (Mr. Trump is the proprietor of the Penn Rock Co.'s establishment) was imposing and magnificent. The waters of the river Delaware were a mile or so distant, where some of the ships which pass in the night were visible in the daytime, and the shores and hills of New Jersey beyond made a delightful view.

Mr. Albert Edwards, florist, at Claymont, had charge of the shoot, and owing to his good management everything went off without a hitch, and a most enjoyable day was spent. After supper, songs, speeches, recitations and three cheers for each of the gun clubs and the Penn Rock Co., coupled with which were the names of Messrs. Jones and Lockerbie, the party wended their way to the station happy in the thought that another day had been well spent. With the exception of the name of Mr. Edwards, your correspondent failed to get any of the other members of the Claymont shooters. The Philadelphia club was represented by George Anderson (captain), John Burton, Wm. K. Harris, J. Wm Colflesh, A. B. Cartledge and George Craig. Other florists present were W. P. Craig, Horace T. Dumont, David Rust, Edwin Lonsdale, John Westcott and some others whose names have escaped me. L.

Chicago Bowling Score.

The Chicago bowlers meet for practice at the Illinois alleys, on Randolph street, each Friday evening. Following is the score made September 16:

	1st.	2nd.	Av.
John Zeck	157	158	157½
F. Hills	146		146
E. Winterson	119	157	138
G. L. Grant	123	146	134
C. W. McKellar	114	138	126
Jno. Degnan	111	134	122½
Chas. Held	136	108	122
S. Snedeker	104	111	107½
C. S. Stewart	111	103	107
W. Kyle	96	116	106
A. Henderson	88	119	103
J. C. Vaughan	97		97
W. J. La Grotte	75	99	87

Philadelphia Bowlers.

Archer led the second class contest up to the time he was taken sick. He is around again and, if in his old form, will have a walkover. Louie Cranpand Melle has been absent for a month. We missed his elephantine tread and his anxious, "keep in the middle"! Now that cooler weather has come he will be again on deck and will furnish the boys some amusement as he gambols up to the line.

The Monday night match games are developing some lively times. The last one was a scorcher. It was Leather-lunged Charlie's team against Magical Bob's six and the latter beat them every one of the three games in spite of the opposition's coaching and the general pandemonium. W.

WEBSTER CITY, IOWA.—James Follett, who had a very fine display at the county fair, lost the entire collection through the burning of Floral Hall.

YPSILANTI, MICH. — Eastern florists enroute to and from Omaha all admired the floral work at the Michigan Central railway station here. It is to be credited to John Laidlaw, and the principal design is the Maine, worked out of about 115,000 plants.

CYCLAMEN
GIGANTEUM.
Fine bulbs, one inch diameter, with large leaves. The finest giant varieties mixed. Per 100, $5.00.
JOHN F. RUPP, Shiremanstown, Pa.

Pteris Tremula Ferns
Strong plants, ready to shift to 4 and 5 inch, from 2¼-inch pots, $3 50 per 100; $30.00 per 1000.
R. WITTERSTAETTER,
SEDAMSVILLE, OHIO.

Orchids!
Arrived in fine condition: Cattleya Speciosissima; C. Harrisoniæ and Oncidium Varicosum Rogersii
Cattleya Mendelii expected shortly.
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XXX CHINESE
PRIMROSES
Out of 3½-inch pots, in fine assortment of best named colors, $5 00 per 100, and extras added to help pay express age. Cash with order, please. The finest Primroses grown
JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.

ROSE PLANTS
EXTRA STRONG 3 and 4-IN. STOCK
HEALTHY.

	3-in.	Per 100 4 in.
Bride	$4.00	$5.00
Bridesmaid	3.00	5.00
Meteor	3 00	5 00
Perle	3 00	5 00

BROWN & CANFIELD, - Springfield, Ill

FINE ROSE STOCK
Extra fine 3-in. Bridesmaids and Brides, $3.50 per 100. Perles, $5 00 per 100.
MUST CLOSE THESE OUT Special Offer—To points within 500 miles we will pay half of the express charges, or all the freight. Cash with order. Stock strictly first-class, worth nearly twice the money.
W. H. CULLETT & SONS, Lincoln, Ill.

EXTRA HEAVY Clean Stock!
Kentia Belmoreana
6-in., 5 to 7 leaves.....$15 to $24 per dozen.
5-in., 5 to 6 leaves..... 12 "
Kentia Fosteriana
6-in., 5 to 6 leaves.....$12 to $18 per dozen.
5-in., 4 to 5 leaves..... 9 to 12 "
FIELD GROWN CARNATIONS...
A fine lot will be ready for Sept. delivery.
THE COTTAGE GARDENS
QUEENS, N. Y.

CROTONS In Excellent Variety.
Send for list of sizes, varieties and prices.
If you feel disposed to try a sample dozen in as many varieties, in 6-in. pots, you may with confidence forward the necessary $9.00 for same by either check or P. O. money order and satisfaction will be guaranteed.
EDWIN LONSDALE,
Money order office, Sta. H. Philadelphia.
Chestnut Hill, PHILADELPHIA.

SPECIAL OFFER!
Pandanus Utilis, 2½-in. pots, beautiful, clean stock, $8.00 per 100. Only a limited number, fine for growing on....
SIEBRECHT & SON
NEW ROCHELLE, N. Y.

ACALYPHA SANDERI
The most Extraordinary Flowering Plant of the Century.

GOLDEN GATE Rose Plants.
SELECTED STOCK.
3 and 4-inch pots, $25.00 per hundred.
For Cash or in Exchange.
American Rose Co., Washington, D. C.

ROSES. ROSES.
No finer grown. Big bushy plants, full of flowering shoots, out of 3 and 3½-inch pots, at $3.00 per 100. Meteors, Brides, Bridesmaids, Perles and Beauties. This stock is cheap at twice the price, but must be sold at once to make room.
SMILAX PLANTS, 2-inch pots, full of roots and covered with plant—no finer to be had—at the lowest price ever quoted. 75c per 100; $5 00 per 1000.
CASH WITH ORDER.
SOUTH SIDE FLORAL CO., Springfield, Ill.

ROSES! ROSES!
Brides, Meteors and Maids, 3-inch, $4.00 per 100; $35.00 per 1000. 2-inch, strong, $2.50 per 100; $20.00 per 1000.
Perles, Beauties 3-in., $5.00 per 100; $45 per 1000.
50 at 100 and 500 at 1000 rates. Cash with order.
ROBERT F. TESSON,
West Forest Park, - St. Louis, Mo.

....FIRST QUALITY FORCING ROSES....
Fully equal to those sent out the last six years, first class and perfectly healthy in every respect.
Only selected growth from flowering shoots used in propagating.
LA FRANCE, METEOR, PERLE, BELLE SIEBRECHT, KAISERIN, MME. HOSTE, 3-inch pots, $6.00 per 100.
PRESIDENT CARNOT, BON SILENE, SUNSET, NIPHETOS, BRIDE, 4-inch pots, $8.00 per 1000.
J. L. DILLON, Bloomsburg, Pa.

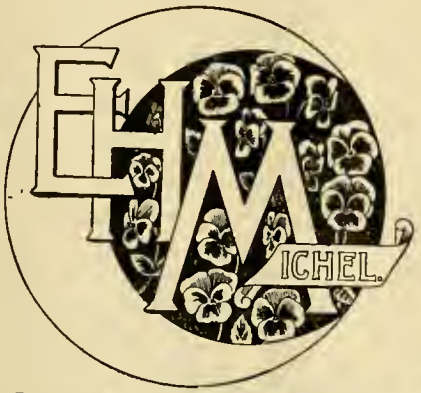
Latanias (FAN PALM.)

CLEAN AND HEALTHY.

7-inch pots, extra heavy, -	$1.00 each
7-inch pots, good plants, -	.75 "
5-inch pots, extra heavy, -	.50 "
5-inch pots, good plants, -	.35 "

Nephrolepis Exaltata (SWORD FERN.)

2 1-2 inch pots, -	$ 5.00 per 100
3-inch pots, - -	10.00 "
4-inch pots, - -	15.00 "
5-inch pots, - -	3.00 per doz.



NEPHROLEPIS (BOSTON FERN.) BOSTONIENSIS

CHOICE STOCK.

2 1-2 inch pots, -	$ 6.00 per 100
3 inch pots, - -	12.00 "
4 inch pots, - -	2.50 per doz.

NEPHROLEPIS Cordata Compacta

VERY FINE.

2 1-2 inch pots, -	$ 5.00 per 100
3 inch pots, - -	10.00 "
4 inch pots, - -	2.50 per doz.

Address

St. Louis Cut Flower Co.

1620 Olive Street, ST. LOUIS, MO.

Mention American Florist when writing to advertisers.

First Chicago Auction

OF SELECTED

Decorative AND Commercial Palms AND Stove Plants

INCLUDING FICUS, FERNS, ORCHIDS, ETC.

From SIEBRECHT & SON, Rose Hill Nurseries, NEW ROCHELLE, N. Y.

Monday, September 26th, at 10 A. M. sharp. One Day Only.

AT 114 and 116 WABASH AVENUE.

JOHN P. CLEARY, of New York, will officiate.

PALM Seed. FRESH ON HAND

	100	1000	3000
Kentia Belmoreana	$1.00	$6.50	$15.00
" Forsteriana	1.00	6.50	15.00

J. L. SCHILLER, 404 East 34th St., NEW YORK CITY.
Mention Am. Florist when writing.

ASPARAGUS SPRENGERI.

50,000 plants in 2½-inch pots, $5.00 per 100, Xpress; 24 for $1.50 by mail.....
Specimens for 8-inch pots, $6 per 12.

A. BLANC & CO.
PHILADELPHIA.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphetos, Kaiserin, 3 and 4-inch.

Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted.

A. S. MacBEAN, Lakewood, N. J.

Milwaukee.

GOOD BUSINESS IN THE CREAM CITY.—MOVEMENTS OF MEN AND WOMEN IN THE TRADE.—A. BILLINGS' GOOD STOCK.—MR. BARR PAYS A VISIT.

The weather has been very encouraging to growers, and trade quite satisfactory to store keepers. Flowers have been somewhat scarce, but a large amount of orders have been filled during the past two weeks, with very little consigned to "the barrel."

Geo. Volk has formed a partnership with his nephew and opened a store at the corner of Milwaukee and Oneida streets under the firm name of Volk & Stewart. This is going farther north than any one in the trade has yet ventured.

Wm. Branch, who is located at Forty-second and Vliet streets, has leased of Chas. Baumgarten all his establishment except two palm houses, and will no doubt move there shortly. Mr. Baumgarten has been quite ill for several weeks and has just left the hospital.

Binzel & Kellner have purchased the stock of palms and ferns from the houses of Mrs. S. S. Merrill, which are torn down, the land being cut up into city lots. Mr. Volm, her gardener, has the building material and will shortly erect a new establishment on some lots of his own near by, and add one more name to the list of commercial florists.

A. Billings has surprised the craft by his excellent show of vegetables, fruit, roses, chrysanthemums and violets since he gave his personal attention to their growing. He has been very quiet for a year and is now exhibiting a stock that any one might be proud of.

Peter Barr, the eminent horticulturist, of London, has spent a few days here. His mingled praise and criticism of our parks has pleased many who passed strictures upon the commissioners for letting Mr. Pettigrew go. C. B. W.

Ferns for Cut Flower Work.

Polypodium vulgare, with its long narrow fronds, and Asplenum ruta muraria are well liked in small pieces owing to the grotesque form of their leaves. Pteris aquilina is a great favorite in the fall when the sun has turned its fronds to a magnificent yellow. Blechnum boreale is also very useful. These are hardy outdoor sorts. Among greenhouse ferns Adiantum cuneatum and A. gracillimum, also A. fragrantissimum and A. Farleyense are of easy growth, loose graceful habit and highly recommended for flower work. The same with Pteris serrulata and P. serrulata cristata, which are also easy to grow. The variegated forms of pteris, argyraea, cretica, albo-lineata and tricolor, also furnish excellent material. Among nephrolepis the exaltata enjoys particular preference on account of its long, slender leaves. Polystichum aculeatum, Aspidium falcatum and Asplenium viviparum are also well liked. Doodia caudata and Onychium Japonicum are cold house ferns and of great value. Of other kinds suitable for cultivation on a large scale lygodium deserves consideration. There are also the hardier species of davallia and those gymnogrammæ not absolutely dependent on the moist temperature of a warm house, which furnish splendid cutting material, although we would not advise their culture to any large extent. Polypodium aureum is desirable on account of the peculiar blue color of its fronds and acrostichums and platyceriums for their peculiar forms.—*Die Bindekunst.*

25,000 Carnations

FINE, STRONG PLANTS, PERFECTLY FREE FROM RUST.

WM. SCOTT, TIDAL WAVE, DAYBREAK, PORTIA.

$3.00 per 100; $25.00 per 1000. Cash with order.

CHARLES SCHAFER,

220 Balmoral Ave., STATION X, CHICAGO, ILL.

When writing please mention American Florist.

CARNATIONS!!

As fine as can be grown and healthy.

2000 Silver Spray (extra)
1000 Daybreak
500 Garfield
500 Scott
250 Albertini
250 Tidal Wave
250 Portia
500 Marie Louise Violets
$4.00 per 100.

CHINESE PRIMROSES in variety, 3-in., 3c.

FRANK BERRY, Stillwater, Minn.

Mention American Florist.

CARNATION PLANTS.

800 ROSE QUEEN
500 FRED DORNER
100 LIZZIE GILBERT
250 IVORY
150 ALBERTINI
100 BRIDESMAIDS
150 MINNIE COOK

All fine large, field-grown Carnations, fine, healthy plants.

A. G. PRINCE & CO.,
88 and 90 Wabash Ave., CHICAGO.

CARNATIONS

PINGREE
ARMAZINDY
AND TRIUMPH

Field-grown. Ready now. Write for prices.

GEO. A. KUHL, Pekin, Ill.

E. G. HILL & CO.,

RICHMOND, INDIANA.

FLORA HILL, JUBILEE

FIELD CLUMPS

$8.00 per 100$75.00 per 1000.

CARNATIONS

FREE FROM RUST.

1000 McGOWAN.....$3.50 per 100
700 CARTLEDGE..... 3.50 per 100
1500 PORTIA..... 3.00 per 100
1200 SCOTT, $3.50. 500 ELDORADO, 4.00 per 100

CASH WITH ORDER.

E. C. MARSHALL, Kennett Square, Pa.

Field-Grown **CARNATIONS**

And Violet Plants

GOOD STOCK. LOW PRICES.

A. WASHBURN & SON, BLOOMINGTON, ILL.

Field Grown **CARNATIONS**

Daybreak, Eldorado and Anna Webb. @ $6.00 per 100
Portia, McGowan and Scott, @ $4.00 per 100.
Free from rust. Cash with order.

DANA R. HERRON, - Olean, N. Y.

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Large, Healthy, Field-Grown

CARNATIONS

of the following varieties:

SCOTT, ROSE QUEEN, MINNIE COOK, BRIDESMAID and ELDORADO.

$5.00 per 100; $40.00 per 1000.

Fine assortment of extra strong FERNS, $4.00 per 100.

Fine large SMILAX PLANTS, from 3½-in. pots, $3.00 per 100; $25.00 per 1000.

PRIMULA OBCONICA, from 3½-inch pots, at $3.00 per 100.

Large field-grown DRACAENAS, 3 years old, $10.00 per 100.

SWAINSONIA PLANTS, from 3½-inch pots, at $6.00 per 100.

JAMES HORAN & SON,
BRIDGEPORT, CONN.

Carnations! FIELD-GROWN.

All sold except 500 Lizzie McGowan
500 Wm. Scott 100 Morello and
300 Emily Pierson 100 Goldfinch

If there is anything here you want, write me and get some low prices on this lot. Address

Chas. Chadwick, Lock Box H, Grand Rapids, Mich.

CARNATIONS

3000 Extra Fine Field-Grown Plants of DAYBREAK.

Also 1000 McGOWAN, 600 SCOTT, and 500 METEOR. Write for prices.

W. A. WETTLIN, Hornellsville, N. Y.

FIELD-GROWN CARNATIONS.

Ready now. Standard varieties. Write for prices.

FIELD-GROWN MARIE LOUISE VIOLETS, $4 per 100.
A1 stock, from pots, $3 per 100; $25 per 1000.

A few hundred BRIDES and MAIDS at a bargain, from 3-inch pots.

CRABB & HUNTER, Grand Rapids, Mich.

FINE FIELD-GROWN **CARNATIONS.**

660 Daybreak.....$5.00 per 100
325 Goldfinch..... 5.00 per 100
850 Portia..... 4.00 per 100
260 Wm. Scott..... 4.00 per 100
1450 McGowan..... 4.00 per 100
400 Her Majesty, pink..... 4.00 per 100

ROSES—La France, $3.00. Meteor, $2.50.

THE NATIONAL PLANT CO., Dayton, O.

FIELD GROWN **CARNATIONS**

Lizzie McGowan, Wm. Scott and Portia, $6 per 100; $50 per 1000.

JOHN REIMELS,
WOODHAVEN, L. I.

CARNATIONS.

We have a fine lot of extra strong plants in the field, including

FLORA HILL, VICTOR, LILY DEAN, MAYOR PINGREE, EMPRESS, ARMAZINDY and others. Also Jubilee in 4-in. pots.

WRITE FOR FULL LIST AND PRICES. Full Price List of PALMS, FERNS, DRACÆNAS, Etc., also Ready.

ROBERT CRAIG & SON, Market and 49th St., Philadelphia.

CARNATIONS

Fine Field-Grown Plants.

	100	1000
WM. SCOTT	$3.00	$25.00
NANCY HANKS	3 00	25.00
EMMA WOCHER	3.00	25.00
TIDAL WAVE	3.00	25.00
PORTIA	3.00	25.00
LIZZIE McGOWAN	3.00	25.00
KOHINOOR	3.00	25.00
NIVEA	3.00	25.00
MORELLO, MAYOR PINGREE	6.00	50.00

No order for less than 100 accepted.

REINBERG BROS.
51 Wabash Ave., CHICAGO.

CARNATIONS

NOW READY

EXTRA FINE FIELD-GROWN PLANTS.

	Per 100
Mrs. S. A. Northway	$10.00
Alba Superba	12.00
Evelina	12.00
Cold Nugget	12.00
White Cloud	12.00
Flora Hill	6.00
Jubilee	8.00
Lizzie McCowan	4.00
William Scott	4.00
Daybreak	7.00
Victor	8.00
Tidal Wave	6.00
Morello	6.00

PANSY PLANTS from our INTERNATIONAL Mixed Seed, the very best, $5 per 1000.

VAUGHAN'S SEED STORE
Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

FIELD-GROWN
Carnation Plants

STOCK READY SEPT. 1st.

A good season has put our field-grown stock for Fall planting in excellent condition; clean, healthy and strong. The condition of our ground is such to insure the lifting of a plant with little or no loss of roots. Send for Price List.

F. Dorner & Sons Co.
LA FAYETTE, IND.

CARNATIONS

H. WEBER & SONS,
Oakland, - Md.

4 Acres Field-Grown Carnation Plants, 91,000.

Our Carnations are grown with the greatest care, free from disease and packed lightly by our improved system of packing, by which we can send them to all parts of the United States and Canada in perfect condition.

CAPTAIN KINC	JOE JEFFERSON	MAYOR PINGREE	C. A. DANA
	$2.00 per dozen.	$10 00 per 100.	
JUBILEE	BUTTERCUP	CRIMSON SPORT	HELEN KELLER
	$1.50 per dozen.	$8.00 per 100.	
BRIDESMAID	METEOR	MME. DIAZ ALBERTINI	CHESTER PRIOE
IVORY	ARMAZINDY	DAYBREAK	STORM KING
	$1 25 per dozen.	$6.00 per 100.	
SWEETBRIER	L. L. LAMBORN	LIZZIE McCOWAN	WM. SCOTT
PORTIA	SILVER SPRAY	PURITAN	MRS. FISHER
	$1.00 per dozen.	$5.00 per 100.	

Send for price list..... J. L. DILLON, Bloomsburg, Pa.

EXTRA FINE CARNATIONS

WHY YOU SHOULD BUY YOUR PLANTS OF US:

1st. Because your order will be filled immediately.
2nd. Because our plants make a great mass of fibrous roots which enable them to stand long shipment well and to start at once when planted.
3rd. Because our plants are healthy and we grow the best varieties

Send for prices..... GEO. HANCOCK & SON, GRAND HAVEN, MICH.

2000 FLORA HILL Carnations

Field-grown plants, No. 1 in every respect, and sure to please you. While they last

$6.00 per 100; $50.00 per 1000.
250 at 1000 rate.

No order filled for less than 50. Cash with order.

JOS. F. KLEMMER,
OAK PARK, ILL.

Surplus Carnations

STRONG HEALTHY PLANTS

1500 Portia..... $3.00 to $5 00
1000 Lizzie McGowan..... per 100.
Send 25c for sample. Write for prices on large quantities.

Boston Ferns, strong runners from bench, $3.00 per 100

James C. Murray, 401 Main St., Peoria, Ill.

5000 FIELD-GROWN Carnation Plants.

McCOWAN, SCOTT, PORTIA, DAYBREAK.
Price on Application.

J. A. SUYDAM, Flatbush, N. Y.

STRONG Field-Grown CARNATIONS

	Per 100		Per 100
Harrison's White	$4 00	Silver Spray	$4 00
Wm. Scott	4.00	Daybreak	6.00
Tidal Wave	4 00	Mayor Pingree	6 00
Portia	4.00	Jubilee	6 00

California Violets, $4.00 per 100.

Cash with order. GEO. SOUSTER, Elgin, Ill.

FIELD-GROWN
Carnations

ALASKA, McGOWAN, SCOTTS, THOS. CARTLEDGE	$5 00 per 100, $40.00 per 1000
DAYBREAK, FERD. MANGOLD, C. A. DANA, JAHN'S SCARLET	$6.00 per 100, $50.00 per 1000
VICTOR, $7.00 per 100.	

Cash with order.

S. J. REUTER, Westerly, R. I.

7000 Splendid CARNATION PLANTS

At a Bargain to close out quick.

1000 METEOR. 1st size.
1500 TIDAL WAVE. 1st and 2nd size.
1500 McGOWAN. 1st and 2nd size.
1200 SCOTT, splendid. 2nd size.
1000 DAYBREAK. fair. 2nd size.

A lot of 1st and 2nd size, 50 to 150 of each: Helen Keller, Della Fox, Ivory, Storm King, Eldorado, Thomas Cartledge, Jubilee, Pingree, Silver Spray and Morello.

A bargain and no mistake. They will go cheap. They are clean, healthy and desirable.

W. H. WATSON,
Both 'Phones. LAPEER, MICH.

CARNATIONS.

FINE, LARGE, FIELD-GROWN PLANTS....

500 Flora Hill, best white	$6.00 per 100
500 Scott	4.00 per 100
450 Tidal Wave	4.00 per 100
200 Ivory	4.00 per 100
700 Silver Spray	4.00 per 100
400 Daybreak	4.00 per 100
150 Bridesmaid	4 00 per 100
150 Rose Queen	4 00 per 100

For Sale: 500 WHITE SMITH GOOSEBERRY plants, extra strong, 2-year, never mildewed in 30 years, $2.50 per 100.

E. HAENTZE, Fond du Lac, Wis.

Buffalo.

FLORISTS DECORATE FOR RETURNING SOLDIERS.—TRADE BRISK.—PLANS FOR THE CHRYSANTHEMUM SHOW.—MUCH INTEREST IS AWAKENING.—NOTES.

Nearly all the florists made some extra window displays last week upon the occasion of the return of the 13th Regiment from Cuba. Palmer had a very fine windmill; Thrall had stacked guns, Rebstock a very handsome urn and Adams a knapsack with "13th U. S. A.," all of which were very pretty.

Funeral work was quite plentiful last week, several people prominent in business and social life departing. Large designs were more in demand than bunches.

The aster Volcano is still erupting all kinds of blooms in profusion.

On Wednesday evening the Florists' Club met at Kasting's and considerable business was transacted relating to our fall show. A committee was appointed to put prices on premium lists and the committee on hall was told to engage a suitable place for the show. Now all that is lacking is a little more help from some of those who are still hanging back, but whom we hope to interest in the work. We have promises from the park, the Botanical Gardens and from the Forest Lawn Greenhouses for specimen plants of all kinds, which will be a leading feature, and I understand that some greenhouses that have never taken any active interest in growing chrysanthemums for exhibition are making a special effort this year. Another encouraging thing is letters from out of town people offering prizes for certain things and others leaving it to the club to place their prizes on what is deemed best.

Three of our dry goods stores had their fall openings this week, calling for a large number of palms, asparagus and roses which were furnished by Scott, Rebstock and Adams.

Palmer is still at his job of changing his store and when completed will have a beauty.

Recent visitors were, S. B. Smiley, Lancaster, who reports chrysanthemums looking fine, and J. C. Vaughan, of Chicago. W.

Peoria, Ill.

In local trade circles there is a confidence that this season is to be the most prosperous in recent years. Stock, particularly roses and carnations, is in better form than usual, and the awakening social life gives every indication of a busy winter for florists.

James C. Murray is making preparations for an increased business and began by engaging Franklin Lockyear, a designer of fifteen years' experience in Chicago and Los Angeles. Mr. Murray's establishment occupies three acres of ground and has 25,000 feet of glass. It is in charge of Charles Loveridge, who has held his present position for ten years, and who grows roses, carnations, lilies, violets, palms and general decorative plants nearly to perfection. As a bid for patronage Mr. Murray has just mailed to every possible customer in his vicinity a neatly printed eight-page booklet bound in a pretty cover of green and red.

The largest establishment in Peoria is that of Cole Bros, who devote a large area of glass to growing general stock. Their roses and carnations are all in fine form and they are delighted with the prospects for fall. All the other dealers are equally sanguine.

GUARANTEED

Fresh Seed From Australia.....

	Per 100	Per 1000
Kentia Belmoreana or Kentia Forsteriana, delivery included	$.64	$ 4 99
Samples on application to intending purchasers		
Lil. Harrisii, 5x7	4.00	37.00
Freesias, Cal. grown, 3/5-1/2, delivered	.50	3 25
" Pure white flowers, guaranteed	.65	5 00
Calla Æthiopica, 3x5 in	4 50	40.00
" " 4x6 in	6 00	55 00
" " 5x7 in	8 00	75 00

Cyclamen Giganteum Bulbs 1½-3 in. diam., doz., $1 00. In pure white, rose, crimson white with red eye, rose with dark eye. Select Seed from Prize Flowers of above sorts, separate or mixed. Clearance price, 100 seeds, 75c; 1000 seeds, $5 00.

Choicest PANSY SEED from Germany and Scotland Giant Flowers, oz., $3 50; ¼ oz., $2 00; 1000 seeds, 25 cts. 5 per cent. for cash on above prices. Address

H. H. BERGER & CO.,
47 Barclay Street, NEW YORK.
(Established 1878)

STRONG, FIELD-GROWN

Variegated Vincas.
Large plants suitable for 5-inch and 6-inch pots, $6.00 per 100.

Hydrangea Otaksa.
Nice stock, just right for 5-inch, 6-inch and 7-inch pots, at $5.00, $8.00 and $10.00 per 100.

Dracaena Indivisa.
Suitable for 4-inch pots, $6.00 per 100.

VICK & HILL CO., Rochester, N. Y.

GREATEST BARGAIN IN PLANTS

Because all stock offered is in A-1 condition.

ROSES—Maids and Brides, 4-inch, $7.50 per 100. Meteor, Maids, Brides, Perles, Niphetos, 3-inch, $5.00 per 100.
CARNATIONS—Field-grown, ready now. Daybreak, Scott, McGowan, Jubilee, Rose Queen, Helen Keller, $7.00 per 100, or $65.00 per 1000.
VIOLETS—Marie Louise, field-grown, ready now, $6.00 per 100, or $55.00 per 1000.
RUBBER PLANTS—Ficus Elastica, 5-inch at $5.00 per doz.
BEGONIA REX—4-inch pots, $20.00 per 100.

WM. F. KASTING
BUFFALO, N. Y.

ASTILBE CHINENSIS (Spiraea) First Class
Certificate Mass. Hort. Society.....
Three sizes, fine stock, $20, $15, $10 per 100.
We recommend September and October planting for..... **HARDY HERBACEOUS PERENNIALS** IN VARIETY.
Price list and descriptive catalogue on application.
REA BROTHERS, Norwood, Mass.

DOUBLE VON SION
Extra fine Bulbs, per 100, $1.75; per 1000, $15.00.
Freesia Refracta Alba
1st size, per 100, 75 cts.; per 1000, $5.50.
L. C. BOBBINK, Rutherford, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

SPECIALTIES IN BEST VARIETIES.
ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
Prices low. Send for list. **VIOLETS.**
WOOD BROTHERS, FISHKILL, N.Y.

BULBS

	Per 100	Per 1000.
Lilium Harrisii, 5 to 7-in	$4.00	$35.00
White Roman Hyacinths, 12 to 15-in.	2.00	17.50
" " 11 to 12-in.	1.50	13.00
L. Longiflorum, Japan, 6 to 8	2.50	22.00
" " 7 to 9	3.50	30.00
Freesia Refracta Alba, 1st size		3.50
" " " extra selected		5.50

Net cash with order.

HULSEBOSCH BROS.
ENGLEWOOD, N. J.

REX BEGONIA

	Per 100
34 Named Varieties, 2-inch pots	$8.00
34 " " Rooted Cuttings	4.00
Mixed " " "	2.00
" " 2-inch pots	4.00

Write for prices on other stock. Terms Cash or C. O. D.

GREENE & UNDERHILL
WATERTOWN, N. Y.

ASPARAGUS

PLUMOSUS NANUS, 2½-inch pots.....$7.00 per 100
ROSES, Bride and Bridesmaid, 3½-in. pots, $5 per 100
Cyperus Alternifolius, 2½-in. pots.....$2.50 per 100
Grevillea Robusta, 2¼-in. pots.....$2.50 per 100

NATHAN SMITH & SON,
ADRIAN, MICH.

Geranium "MARS"
STOCK PLANTS, FIELD GROWN, READY NOW....
$1.50, $2.25, $3.00 per doz.; $15.00 per 100. Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

Rooted Cuttings of ACERATUM Princess Pauline, the most distinct and novel variety, of dwarf, compact habit; color sky-blue. Most desirable plant for retail trade, per 100 $2 00
CYCLAMEN PERSICUM, in four colors, fine plants, 4-inch, per 100 $12 50.
ROSES—Souv. de Wootton and Bougere, 4-inch, per 100 $5.00
Field-Grown CARNATIONS—Jubilee, Armazindy, Mayor Pingree, per 100 $7.00. Alaska, McGowan, Kohinoor, Daybreak, Rose Queen, Scott, Dorner and W. D. Sloane, per 100 $5.00.
Cash with order. **CHRIST. WINTERICH, Defiance, O**

ASPIDISTRA **Lurida fol. var.** just now in good condition without leaves, good roots with sprouts, $6 per 100; sample, 90c per doz. postpaid. **Canna "Florida"** for trial 10 cents.

Asparagus Sprengerii Seed.... { 100, $1.00 / 1000, 8.00
Fresh from the vines.....
Pampas Grove Nurseries Greenland P. O., Florida.

FOR SALE.

100,000 Strong LATANIA Seedlings, very well rooted, $25 per 1000
30,000 FERNS for dishes, very large, 2½-inch, $3 per 100; $25 per 1000.
4,000 SWORD FERNS, 4-in. $9, 4½-in. $10 per 100.
2,000 RUBBER TREES, in excellent condition, 5½-in 50c; 6 in. 70c. You never saw better Ficus.
60,000 PALMS in variety. All sizes. (Medal awarded on Palms at World's Fair, 1893).
10,000 No. 1 'MUMS, ready for this fall.
Try us on **No. 1 CUT FLOWERS.** 26 greenhouses.

ALBERT FUCHS, 2059-73 N. Halsted St. CHICAGO.

McCOWAN CARNATIONS, field-grown, strong, healthy, $3 per 100; $28 per 1000.
CINERARIA and BOSTON IVY, 2½-in., $2.50 a 100.
GERANIUM CLUMPS, $5 per 100.
INSALL & LEADBETTER, Moorestown, N. J.

LOWEST PRICES ON BULBS, BUT CASH!
Send in your wants for quotation, no price list issued.
J. L. SCHILLER, 404 East 34th St., NEW YORK.



VAUGHAN'S PANSIES... "INTERNATIONAL"

Received the only reward for Mixed Pansies at the World's Fair. It is today better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. **Price, per oz., $10; 1-2 oz., $5; 1-8 oz., $1.50; trade pkt., 50 cts. (less 10 per cent for cash.)**

VAUGHAN'S "GIANT MIXTURE"

This mixture is specially made up by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had in any other way. If your trade demands large flowers there is no better mixture. **Price, per oz., $4.00; 1-4 oz., $1.25, 1-8 oz., 70 cts., large trade pkt., 50 cts.**

GIANT TRIMARDEAU, Mixed, oz., $1.00; ¼-oz., 30c; pkt., 10c.
"CHICAGO PARKS BEDDING" MIXTURE, oz., $1.00; ¼ oz., 30c; pkt., 10c.
Separate Colors—For price of these see Special Pansy Seed Circular, sent on application.

VAUGHAN'S SEED STORE,
14 BARCLAY ST., NEW YORK. 84-86 RANDOLPH ST., CHICAGO.

Chinese Primrose!

2½-inch pots, mixed colors, $2.00 per 100.
FERNS for jardinieres, $3 per 100.
PANSY SEED, ½ oz. $2.00; oz. $3.50. Plants October 1st, $3.50 per 1000
JOS. H. CUNNINGHAM, Delaware, O.

GOOD, FIELD-GROWN

Marie Louise Violets

None better ever seen, per 100, $5; per 1000, $40. Healthy stock.....

F. P. ZIMMERMAN, FLORIST, TARKIO, MO.

VIOLETS. & SMILAX.

VIOLETS, Marie Louise, field-grown, strong and absolutely healthy, $4.00 a 100; $35.00 a 1000.
"Seconds" (inferior only in size), one-half above prices.
SMILAX, 2½-inch, fine, once cut back, $1.00 a 100; $8.00 a 1000.
Cash with order please. Samples, postpaid, 10c.

R. KILBOURN, Clinton, New York.

300,000 Pansy Plants

The JENNINGS Strain.

Fine field-grown, stocky plants, in great variety of colors. All large flowering.
By mail, 75 cts. per 100; express $4.00 per 1000; 5000, $18.00. Seed of above, $1.00 per pkt.; $5.00 per ounce.
CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, Southport, Conn.
Grower of the Finest Pansies.

Pink Paeony Clumps

FOR FALL PLANTING

At $10.00 per 100. Will divide into two and three. Easily cultivated; need no protection during winter. Any florist having land will find them big payers. Freight any distance.....

BRANT & NOE, & Forest Glen, Ill.

Hydrangea Otaksa.

Fine 6-inch pot plants, at $23 per 100
" 5 " " " " 20 " "
DRACAENA INDIVISA, pot grown, 6-inch 20 " "
" " " " 5 " 15 " "
UMBRELLA PLANTS, 3 and 4-inch, $3 and 4 " "
See Convention Number for other stock.

CARL HAGENBURGER, - West Mentor, O.
CASH, PLEASE.

3000 Carnations and 350 Vincas.

CLEAN, HEALTHY STOCK.
.....CHEAP FOR CASH.....

H. CERSTENKORN, - LYONS, ILL.

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HERR'S PANSIES. BUY THE BEST

SEED at $1.50 per ounce. A liberal packet for $1.00.
PLANTS at 75 cts. per 100, or $4.00 per 1000; 250 for $1.00, by express.

ALBERT M. HERR, LANCASTER, PA.

	Per 100
2000 PRIMROSES, 2¼-in., ready to shift.....	$2.00
1000 GYNURA AURANTIACA, or Velvet Plant, a big seller, 2¼ in.....	3.00
22 000 CARNATIONS, field-grown, first size, extra strong, Mayor Pingree, Mans. Dean, C. A. Dana, Sloane.....	6.00
Armazindy, Daybreak, Helen Keller, Ivory and Alaska.....	5.00
25,000 GERANIUMS Marvel, S. A. Nutt, Hermione, La Favorite, Mrs. E. G. Hill, W. P. Simmons, Mrs. J. M. Garr and 20 others, rooted cuttings from 2-in. pots, $15 per 1000	2.00
1000 SALVIAS, Clara Bedman, La President and Vernon, 2¼-in. pots.....	2.00
2000 COLEUS, South Park Gem, Monarch, Prince Spiria and 10 others, good for stock, 2¼-in.....	1.00

THE MORRIS FLORAL CO., Morris, Ill.

Yellow Rambler.

Strong, bushy plants, from 4-inch pots, $12 00 per 100.

Hybrid Wichuraiana Roses.

MANDA'S TRIUMPH, SO. ORANGE PERFECTION, UNIVERSAL FAVORITE, PINK ROAMER.
Strong, 4-inch pot plants, $15 per 100.

Thomas Meehan & Sons,
Germantown, Philadelphia, Pa.

CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3-inch pots. Acknowledged by florists as the finest strain of Primroses to be had. Single varieties in finest named colors, $2 50 per 100; $20 00 per 1000 in assortment. Double Red, Rose and Cristata, $4 00 per 100. Extra plants added to help pay expressage. Adams and U. S. Express. Cash with order, or one-half cash and balance C. O. D.

JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.



H. Wrede,

LUNEBURG, GERMANY.

PANSY SEED.

144 First Prizes, the highest awards World's Fair, and Hamburg, 1897.
1000 Seeds, finest mixed, 25c.
1 oz. " " " $3.75
☞ Price List on application. Cash with order.

PANSIES

Roemer's Superb Prize Pansies.

This improved strain includes all the leading novelties, strong, bushy plants, ready now, 60c. per 100, by mail; $2.00 per 500, by express; $4.00 per 1000; $7.00 per 2000; $10.00 per 3000.
CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

SURPLUS STOCK.

UNHEARD OF PRICES.

	Per 100
1150 Smilax, 800 Palms, 1500 Coleus.....	$1 00
500 field grown Carnations, 300 Pelargoniums ...	3 00
500 Rex Begonias, 300 Roses, 400 Geraniums, 500 Cyperus	2.50
300 Deutzia gracilis, Fuchsia, Salvia, etc.....	2.00
Rooted Cuttings Geraniums, Pelargoniums, Begonias, Scented Geraniums, etc.....	1.00
Rooted Cuttings Coleus.....	.50

We have also for sale, three greenhouses 75x16 feet, heating pipes, stock, delivery wagon (new), large tank and windmill, for $800. Must be removed off land.

THE OAKS GREENHOUSE CO., Jackson, Mich.

Zirngiebel's Giant Pansies

PLANTS of the above strains at the same rates as the common varieties, viz: **$5 per 1000.** With our system of packing, plants can be sent safely any distance.

DENYS ZIRNGIEBEL, Needham, Mass.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.
In Trade Packets at $1.00 each.

M. B. FAXON,
Lock Box 1528. BOSTON, MASS.
Correspondence solicited.

Pansies Worth Raising.

EXCELLENT SEED.

3-16 oz. $1.00; 1 oz. $4.00; up in 8 to 10 days, if properly treated.
FINE STOCKY PLANTS, $4 00 per 1000. f. o. b. express. ☞ CASH WITH ORDER.

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

Madison, N. J.

The regular monthly meeting of the Morris County Gardeners' and Florists' Society was held September 14, with President Duckham in the chair, nearly one hundred members and associate members being present.

The executive committee reported progress with the flower show arrangements; the schedule has been printed and mailed, McAlpin Hall, Morristown, secured for two days; in fact there is nothing left to be desired except public enthusiasm and this the committee was instructed to arouse.

The exhibits were far above the average, the keenest competition being in the wild flower class, E. Reagan leading with a collection of sixty-three named varieties, Mr. A. Herrington second with fifty-four. P. Cox made a splendid show of hardy perennials and annuals. Mr. Duckham displayed a beautiful English strain of zinnias; Mr. J. Jones a collection of delicious melons, and there were many other creditable exhibits.

Prof. Byron D. Halsted, of the Agricultural College Experiment Station, New Brunswick, N. J., delivered an excellent discourse upon the subject, "Some relations between the weather and growing plants." His remarks were well authenticated by frequent reference to his weather chart, which he had compiled for the preceding ten years. He pointed out the principal causes of crop diseases, the bulk being destroyed by fungi which wet weather produced. This was particularly applicable in the case of potatoes, excessive rainfalls in July causing a fierce growth of fungi till the crop was almost annihilated some years. The Professor gave some valuable points which were eagerly noted by the gardening element present. In conclusion a hearty vote of thanks was given the lecturer. C. H. A.

Columbus, O.

Business here is picking up nicely and prospects could not be better. Stock is looking fairly but will not be enough, as usual. A visit to Springfield, O., shows everybody there busy invoicing bulbs, but the mailing trade has not opened up yet. The weather is altogether too warm to make people think of buying bulbs.

Thomas Ludwig, formerly manager of the Columbus Seed Company, has left that concern and returned to the firm A. W. Livingston's Sons, with which seed house he was connected in former years.

F. D.

Standard Flower Pots.

PRICE LIST OF STANDARD POTS:—

1¾-in. pots, per 1000			$3 00	6-in. pots, per 100			$22 00
2	"	"	3 25	7	"	"	35 00
2½	"	"	3 50	8	"	"	50 00
2¾	"	"	4 00	9	"	"	75.00
3	"	"	5 00	10	"	per 100	10 00
3½	"	"	7 25	11	"	"	15 00
4	"	"	9 00	12	"	"	20 00
5	"	"	13 80	14	"	"	40 00
				16	"	"	75.00

Seed and bulb pans, same price as pots. Saucers to match pots, one-half price of pots. Ten per cent off for cash with order Send for price list of Lawn Vases, Hanging Vases and Cylinders. Address

HILFINGER BROS. POTTERY,
FORT EDWARD, N. Y.

OR.... AUGUST ROLKER & SONS, AGTS.,
52 DEY STREET, - NEW YORK CITY.

SCOLLAY SPRINKLER...



INDISPENSABLE
J. A. Scollay, Maker,
74 Myrtle Ave.
Brooklyn, N. Y.
VAUGHAN'S SEED STORE, Gen'l Western Agents,
84 Randolph St., CHICAGO.

THE HARRISH DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent.

KRAFT'S PLANT TONIC

THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25 cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.

THIS INSECTICIDE IS NON-POISONOUS.

KRAFT PLANT TONIC CO., - ROCKFORD, ILL.

Standard Flower Pots...



OUR POTS ARE OF THE BEST QUALITY.
We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.
☞ Write us before placing your orders elsewhere.....
CAMBRIDGE TILE MFG. CO., Covington, Ky.

GALVANIZED STEEL WIRE PLANT STAKES

FROM $2 PER 1000 UPWARDS

H. F. LITTLEFIELD, WORCESTER, MASS.

Tobacco Dust

Just at present we have a surplus and room is scarce. We will fill orders to the trade as long as surplus stock lasts at $12.00 per ton; $7.00 per ½-ton; $1.00 per 100. Cash must accompany order.

THOMPSON'S SONS, Rio Vista, Va.



BRANCH WAREHOUSES:
Kearney and Westside Aves., Jersey City, N. J.
Jackson Av. & Pearson St., Long Island City, N. Y.

Standard Pots

Made by KELLER BROS.

Good Railroad Facilities For shipping.
Special Attention Given to Mail Orders, and Special Sizes Made to Order.

NORRISTOWN, PA.

Price Lists Furnished on Application.

THOSE RED POTS

"STANDARDS"
FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y,
HARRY BALSLEY, Rep. DETROIT, MICH., 490 HOWARD ST.

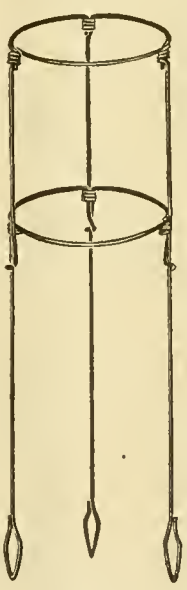
Standard FLOWER Pots

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST,
Station M, N. E. WASHINGTON, D. C.

Please Mention The American Florist.

The MODEL Extension Carnation Support



QUEENS, N. Y., Feb. 16, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97
MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem. Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes

AT LOWEST PRICES.

Write for Prices, Circular and Special Discounts for Early Orders.

The Model Plant Stake Co.,

THERON PARKER, Mgr., Inventor and Patentee,
22 MORTON STREET BROOKLYN, N. Y.

FLOWER POTS

ALL KINDS.

STANDARD POTS A SPECIALTY

List and SAMPLES FREE.

J. G. SWAHN'S SONS, P. O. Box 78, MINNEAPOLIS, MINN.



GEO. KELLER & SON,

MANUFACTURERS OF

Flower Pots.

Before buying write for prices.
361-363 Herndon Street
near Wrightwood Ave.,
CHICAGO, ILL.

Salt Lake City.

UTAH'S METROPOLIS IS AWAKENING FROM A SUMMER SIESTA.—STOCK IS IN SPLENDID CONDITION.—MANY BUSINESS CHANGES.—PERSONAL DOINGS.

Salt Lake City has been very quiet for the past three months and the florists have felt the absence of the social element for it has been very hot and every one who could get away has availed himself of the cool, refreshing breezes of the mountains. However, fall is at hand and business is picking up. Growers are busy preparing for a prosperous winter and stock is, in general, much better than in previous years.

Many business changes have taken place in the past few months. Jovial Harry Parks has again moved and in future his friends will find him at G. W. Barrow's old stand, 544 East Second South street.

The Kensington Greenhouses are now under the managership of Mrs. Phough and will be run as a private concern, but it is whispered that she is going to open the most elaborate store in town.

Jas. H. Williams, at the city cemetery, has his place as usual, looking perfection. He knows the climate and the right stock to plant and does it. Can we not learn from these old timers?

The Huddart Floral Company is building a conservatory beside their store on Second South street to be used as a show house for palms and decorative plants. They propose to put in electric light and make it otherwise attractive.

While our patriotic brother, B. C. Morris, is at war with the Rough Riders, his hustling manager, Tom Hobday, has not been slow at home. Tom has done wonders in moving the greenhouses half a block south and has now a fine place and the stock looks well.

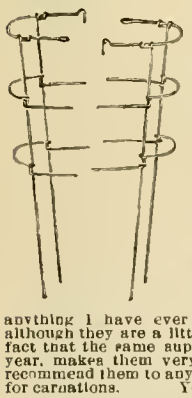
We must not forget a word of praise to A. Schulthess, the city park's superintenent, and his able gardener as we well know that our town people have enjoyed the beauties of nature there this year during the hot weather. P. T. H.

HORAN'S PATENT

Carnation Support

Patented Aug. 3, 1897.

Following are a few of the many testimonials received from various growers:



Buffalo, N. Y., Jan. 25, '98.
Mr. Jas. Horan & Son,
GENTLEMEN:—I have in use a few hundred of your patent Carnation Supports. They are supporting Flora Hill. While I consider the first cost rather high, they answer the purpose admirably, not crowding the plants, but affording light and air between them. They should be of various heights and sizes, to suit the different varieties of carnations.
Very respectfully,
WILLIAM SCOTT.

Connellsville Pa., Jan. 31, '98.
Mr. Jas. Horan & Son,
GENTLEMEN:—I have given your supports a fair trial and consider them far ahead of anything I have ever seen for the purpose, and although they are a little expensive at the start, the fact that the same support can be used year after year, makes them very cheap, and I would gladly recommend them to anyone wishing a perfect support for carnations. Yours truly, L. D. WOODS.

We have made an improvement on our Supports which admits of the rings being let out two inches, which prevents the plant from being crowded as it increases in size. While we think the size we have adopted suitable for nearly all the varieties now in cultivation, we can furnish larger sizes at a slight increase of cost over the regular sizes to those who desire them.

JAS. HORAN & SON, Bridgeport, Conn.

Mention American Florist.

H. M. HOOKER COMPANY.
COR. CLINTON and RANDOLPH STS. CHICAGO.

GREENHOUSE GLASS

OUR SPECIALTY.

LARGE STOCK PROMPT SHIPMENT.

ALSO MANUFACTURERS OF **Pure Linseed Oil Putty, Paints, Brushes Etc.**

WRITE FOR LATEST PRICES

WHEELER-STENZEL CO.

IMPORTERS AND JOBBERS OF

Make your contracts for next season now. We can deliver to any part of the country and Save You Money.....

Greenhouse Glass

72 Sudbury St., BOSTON, MASS.

Glass Hot Bed, Greenhouse and Ventilator **Sash**

GULF CYPRESS BARS, ETC.

MANUFACTURED BY

S. JACOBS & SONS, FACTORY: Queens Borough. OFFICE: 406 W. 13th St., N. Y.

WHITE LEAD, PUTTY, Etc., at Wholesale. Estimates Cheerfully Furnished.

Sheep Manure!

IN BULK	Per ton
Pulverized, car lots	$8 00
Natural, car lots	4 00
IN SACKS OR BARRELS	
Pulverized, less than car lots	12.00
Natural, less than car lots	8 00

F. O. B. cars here.

Mitchell, So. Dakota. E. C. NEWBURY.

Please mention American Florist

Tobacco STEMS DUST EXTRACT

BOTTOM PRICES.

VAUGHAN'S SEED STORE,
Chicago. New York.

THE BEST FOR ALL Florists' "ROSE LEAF" EXTRACT OF TOBACCO INSECTICIDE. FOR SALE BY SEED STORES FOR FREE PAMPHLET WRITE TO LOUISVILLE SPIRIT CURED TOBACCO CO LOUISVILLE, KY

Sulpho-Tobacco Soap

Universal Insecticide

For Flowers, Trees and Animals.

Recommended and in use by the foremost florists and nurserymen in the land.

For Sale at the Seed Stores.

ROSE MFG. CO.
NIAGARA FALLS, N. Y.

When writing mention the American Florist

FOR SALE CHEAP.

GLASS for Greenhouses, Conservatories, Hotbeds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. THE REED GLASS & PAINT CO., 456 W. Broadway, NEW YORK.

NIKOTEEN

IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS—ENDORSED BY PROMINENT FLORISTS—USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT—200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN——CIRCULAR FREE—

SKABCURA DIP CO. CHICAGO.

Kill AND SAVE the THE BLOOMS Bugs!

QUICKLY DOES IT.

NEW & SECOND-HAND MATERIAL,

purchased from Sheriff, Receiver, and Assignee, sales at less than one-half prices. Pipe and Fittings Hose, Florists' Wire, Hot Water Heaters, Greenhouse Boilers and Engines, Rope, Light Wrought Iron Pipe Glass Sash, and thousands of other articles, for sale by

CHICAGO HOUSE WRECKING CO.
Largest Mail Order Depot for New and Second-Hand Material in the World.
W. 35TH & IRON STS., CHICAGO.
Write for our free Illustrated catalogues.



EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS

WRITE FOR ILLUSTRATED CATALOGUE
QUAKER CITY MACHINE WORKS.
RICHMOND, IND.

It is good business policy to mention the

....AMERICAN FLORIST

when you write to an advertiser

Pittsburg.

BUSINESS IS IMPROVING AND THE KNIGHTS TEMPLAR CONCLAVE PROMISES MUCH.— A SECOND WHOLESALE HOUSE.— MR. BURKE MARRIED.

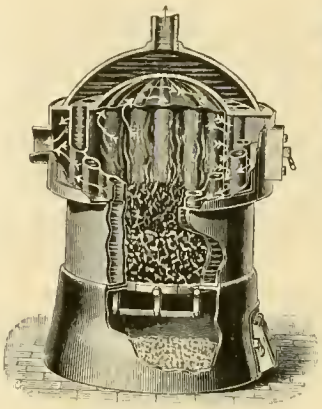
Business is a little better than it has been for a few weeks past and all the florists are booking orders for the week of October 10, when the Triennial Conclave of the Knights Templar will be held here, and from present appearances will give them all the trade they can possibly handle. Foliage plants for decorative purposes are bespoken in such quantities that it is becoming a question if there are enough to supply the demand. Several of the leading florists refused to compete for the large decorations, so that they will be in condition to handle the orders for society affairs.

The Pittsburg Cut Flower Company reports business fairly good and prices obtained better than a week ago; roses bring from 2 to 6 cents each, American Beauties 10 to 30 cents, Flora Hill carnations 2 cents and Scott 1½ cents.

There will be another wholesale cut flower house started about October 1. S. S. Skidelsky is at the head of it, and has secured a location on Sixth avenue near Smithfield street.

George W. Burke, superintendent of Highland Park, has taken unto himself a wife, Miss Harper, and on returning from their wedding tour last Saturday were presented by the employes of the park with a very handsome silver tea set.

REGIA.



"DORIC" HOT WATER HEATER. SECTIONAL VIEW

Doric

CAPACITIES FROM 400 to 2600 FT. 2-IN. PIPE.

The Best Boiler on Earth for Greenhouse Heating.

ALSO MADE FOR STEAM.

Water Section Made in One Casting. No Leaky Joints to Worry Over. Deep Fire Pot. No Need to Sit Up All Night to Keep Your Fire Going.

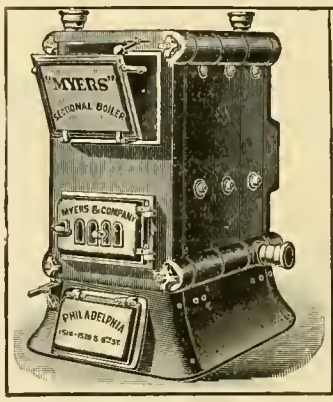
THE STANDARD OF THE WORLD.

SEND FOR FLORISTS' CATALOGUE AND PRICE LIST FREE UPON APPLICATION.

GURNEY HEATER MFG. CO.

NEW YORK CITY BRANCH: 48 Centre St.

74 Franklin St., Cor. Arch, BOSTON, MASS.



MYERS

Improved Sectional Hot Water Boilers

FOR HEATING GREENHOUSES, CONSERVATORIES, ETC.

GIVES MOST HEAT FOR LEAST MONEY.

ROBERT CRAIG & SON, of Philadelphia, say of it: "We are wonderfully well pleased with your Myers Boiler. We recommend it to anyone desiring a strictly first-class hot water heating apparatus."

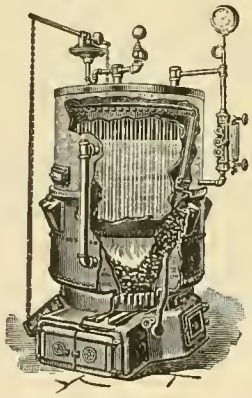
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MYERS & CO.,

1514 to 1520 S. Ninth St., PHILADELPHIA, PA.

—THE—

GORTON SIDE FEED Boiler



is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

Further information on application.

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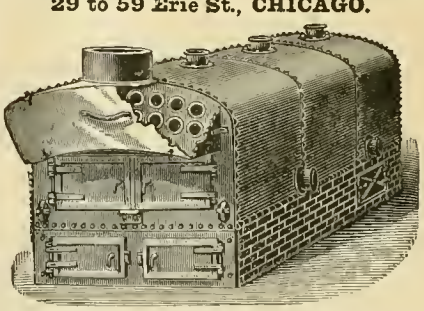
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BUSINESS BEGINS TO REVIVE.—DUTCH BULBS ARE IN.—A VISIT TO MURPHYVILLE.—CARNATIONS GALORE.—THREE BROTHERS' BIG STOCK.

A little activity is felt in the cut flower market. Carnations are coming in more plentifully and with better stems. Roses have been improving in the past few weeks, and Bride, Bridesmaid and Kaiserin are now of good quality. Smilax has been in good demand but is rather scarce.

Dutch bulbs have once more arrived and hyacinths are inferior in size to those of former years, while tulips seem to be up to the usual standard.

A visit to Murphyville found the Murphys busy housing carnations. Will Murphy has had the majority of his houses planted for some time and all are now doing remarkably well. The plants on this place are about the same as last year. At Robert Murphy's Son's we found the plants in the field clean and strong, particularly Scott and Daybreak. C. C. Murphy has never had plants better than those of this year, especially Evelina and Flora Hill.

Beechwood, better known as Murphyville, is now the most important carnation center around Cincinnati. No less than 60,000 plants will be the surplus stock among the Murphys.

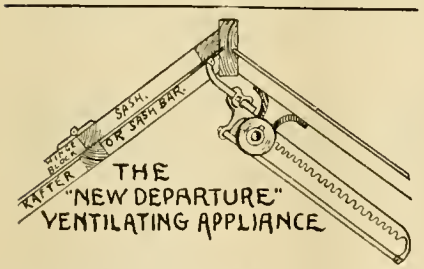
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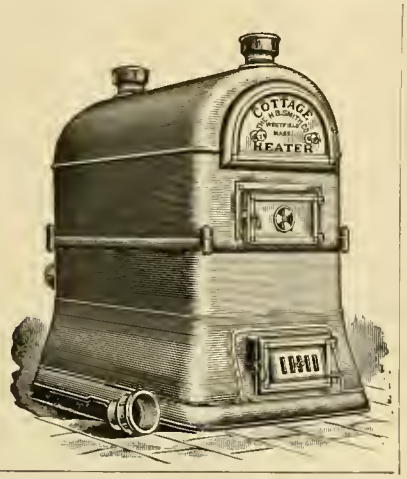
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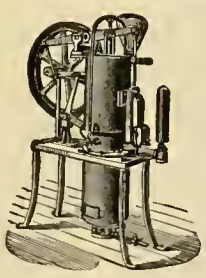
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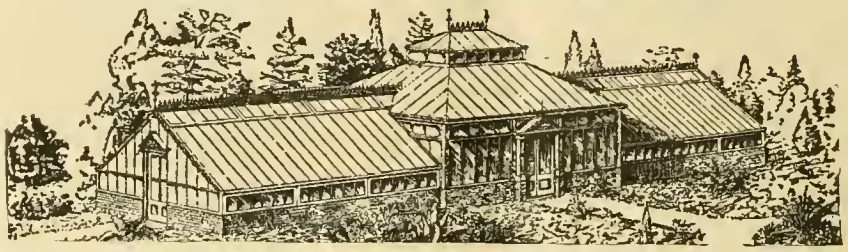
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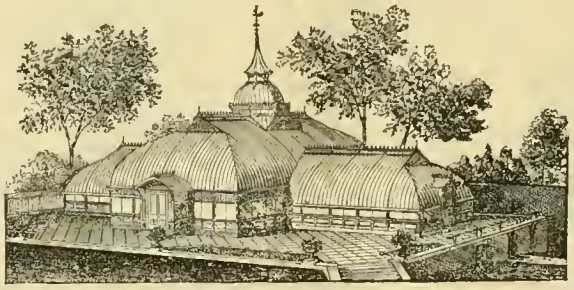
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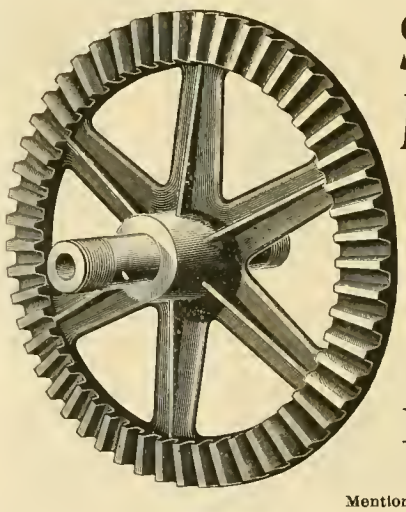
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OFFICERS-ELECT [to be installed Jan. 1, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899 ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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CHRYSANTHEMUMS.

CULTURAL NOTES.

October 1.—As soon as the several varieties commence to show their petals the walks and floors of the houses should be kept as clean and dry as possible, as moisture may cause the petals to become spotted. Avoid a close atmosphere, particularly at night and, if the outside temperature is such as to warrant it, have a little artificial heat with the ventilators open a little way, for if the house is closed tightly without any fire heat the dampness will settle on the blooms and foliage and a few nights of this will cause them to rot. Some varieties, notably Mayflower and Golden Wedding, are subject to mildew, especially the plants on the north side of the bench. Should it put in an appearance give the foliage a dusting of sulphur or, better still, apply a light coat of lime and sulphur to the steam pipes, but be careful and not have it too strong. One of the principal points to consider if you want the blooms to stand shipping and give satisfaction afterward is to allow them to thoroughly develop before cutting, and also stand them in water at least over night before shipping. The blooms while in water need to be kept in an upright position for being allowed to lay over the sides of the jar is often the cause of their wilting as they cannot take up the water properly. We use half barrels with lath nailed across the top to hold the blooms while in the water and find this to answer the purpose well. C. W. JOHNSON.

SPECIMEN PLANTS.

Ten years ago chrysanthemums intended for specimen plants were grown outdoors until the autumn. Then the chinch bug was a stranger in the east, but it rapidly became a pest. It is not now so abundant as it was five years ago, but is still present in sufficient numbers to interfere with successful culture unless protection is given. Growers of plants as well as blooms were, so to speak, driven indoors. When Mrs. Alpheus Hardy was introduced, it was considered useless as a specimen plant, at least out of doors, but, "just for experiment," I tried one in the greenhouse all summer. It grew amazingly, and the comment among gardeners was that it could not possibly bloom well, because it could not ripen. But it did ripen excellently and produced large and well formed blooms. The Massachusetts Horticultural Society gave me a silver medal for special culture and since then all growers hereabouts have kept their plants under glass; and larger and handsomer plants have been exhibited than were ever thought possible.

Culture under glass requires more attention from the grower. He really should be, and generally is, an enthusiast. During the season of greatest growth, the months of July and August, the plants lack the sturdiness of field grown stock and we are apt to be over generous with artificial manures, with disastrous results. The roots, having exhausted the body of loam in the pots, come to the surface. We are on the right track so long as the roots appear healthy, but once notice them disappear, and you may be sure something is wrong before the trouble shows itself in any other way. Let the plants get dry, even to wilting, and then give clear water only, as the best antidote. The foliage usually turns yellow. This is especially the case with G. W. Childs and most of the dark flowered varieties.

Tying out should not be left too long, in fact it should be done every few days. There are always some overgrown shoots, which are difficult to accommodate, but while they are supple they will bend. A week ago, I doubled some completely over, and all are now facing out nicely. One can sometimes fill a bad hole with a bent shoot. Last season I discarded stakes, using wires with moderate results. I saw where improvements could be made, and have carried them out this season. I will say at once that the wiring plan is not applicable to plants which must be carried any distance to exhibitions. Stakes admit of the plants being drawn in, with the result that they travel in a smaller compass and with less injury. Nor is the plan suitable for all that will make specimens. W. H. Lincoln is a model plant for wiring; G. W. Childs one of the worst. An infinite amount of patience is required for putting on the framework of wire. Much calculation is needed as to the probable height or the length the shoots will grow.

One of my improvements this season, is in allowing for the contracting or expanding of the frame after it is on. Frames put on a month ago need expanding now. My first work is to put a wire stake in the center with an eyelet on the top, then a No. 16 wire round the pot below the rim. Four wire stakes laid crosswise over the pot are tied to this No. 16 wire. A circling No. 12 wire is put around the plant and tied to the cross stakes. The base is strengthened by No. 20 wire. Three lengths of No. 12 wire are bent over the plant, run through the eyelet, and secured to the encircling wire. This top part is stiffened by stakes driven into the pot and tied to the bent wires. All the ties are made with silkaline, which does not slip. The frames were put on thirty

plants and the tying done in six days. This was just a month ago. Not more than half of them will fill out as well as I could wish. A dozen good specimens are as many as I expect.

Disbudding of late years has been reduced to stems with one bloom. This was in keeping with the desire for large blooms. I think I can spread color over the plants better by letting more buds develop. Where the shoots are strong I am taking out the central bud, forcing the development of the side ones. Each flower will not need a stake; merely a tie will place it.

The following list of recent varieties are doing well: Yellow Fellow, Sybil Kaye, Mrs Kalb, Solar Queen, Casco, Autumn Glory, Red Warrior, Defender, Mrs. J. G. Glessner, Merula, Katherine Leech, Madge, Martin A. Ryerson, the Barrington and Bonnie Dundee.

T. D. HATFIELD.

REVIEW OF NOVELTIES.

It is too early to speak with any certainty regarding their merits, but some of last spring's novelties are very promising indeed, and from present indications we think there are several that will become prominent among the standard varieties. In looking over the stock, we find Alice F. Carey is making very strong, short-jointed growth. Autumn Glory, exceptionally strong, but late with its buds, as they are not ready to take at this date, September 24. Arline, very strong growth and short-jointed; promising well. Boundless Snow has been an entire failure with us, all the plants very stunted in growth; none will flower. Black Hawk, exceptionally good growth for a crimson variety, but rather long-stemmed from crown bud. Should the color be good and proof against burning, it will be a valuable addition to this class; it certainly promises well now. Frank Hardy has the same vigor that is characteristic of Good Gracious, its parent. Mrs. C. H. Peirce, dwarf, but very strong in its growth, making exceptionally large canes; very promising. Mrs. Arthur J. Caton, dwarf, with very heavy, metallic foliage. Buds taken August 15 are just beginning to open, giving very short stems from either crown or terminal. Miss Gladys Vanderbilt, buds nicely advanced, free grower. Pennsylvania promises as well as its parent, Philadelphia. Merza, dwarf, very short-stemmed, buds nicely set. Robt. G. Carey, strong grower. Solar Queen, dwarf, but very strong in growth, making extra heavy canes. From appearances we conclude it is a seedling from Georgiana Pitcher, which it strongly resembles. Snow Queen, good habit, quite promising. Yellow Fellow, strong grower, apparently good. Wm. H. Chadwick has made good growth, but from present indications we conclude ours will be earlier than those shown last year. Thornden has made very much stronger growth than in former seasons and bids fair to attain a prominent place among the standard varieties. Yellow Mrs. J. Jones has every indication of being as good as the white variety. We are testing six of the yellow and bronze sports from Mrs. J. Jones and hope to be able to determine their similarity or distinctiveness. Mrs. A. F. Wienold, rather tall and unless the buds develop with great rapidity it will not be ready as early as Mrs. A. J. Caton. We conclude that Solar Queen, Mrs. C. H. Peirce, Mrs. A. J. Caton and Merza will be acquisitions for single-stemmed pot plants. ELMER D. SMITH.

Obituary.

BURT EDDY.

Burt Eddy, known far and wide as the accomplished representative of Vaughan's Seed Store, died at his home in Chicago September 27. He had been on a business trip in the south, where he contracted malaria, which, with other complications, unhappily proved fatal. Mr. Eddy reached his home on the 20th ult., but the physicians who were then called to attend him gave little or no hope of his recovery. As his life was an inspiration to his fellows so was his death—he died at his post.



BURT EDDY.

Elbert H. Eddy, better known as "Burt" Eddy, was born in Cheshire, Conn., about fifty-four years ago. He taught school in his younger days and lived at home with his parents, his father being a miller. When the war broke out he enlisted in the 2nd Iowa Infantry and fought through the entire war, being twice taken captive and confined in Andersonville and Libby prisons. He returned to Chicago and met Maria Smith Currier, whom he married and who now survives him. The only issue was one son, Elbert B., who now resides in Chicago and is special agent for the United States Express Company. Mr. Eddy devoted a number of years to market gardening and was located at Wheeler, Ind. He raised fancy vegetables as well as vegetable plants for the trade. His original ideas in growing these and handling plants gained for him quite a reputation and he worked up a widespread shipping business; reverses, however, came upon him and he was compelled to give it up. He then made his way to Chicago and entered the service of Vaughan's Seed Store, which he has represented very successfully for the last nine years. Mr. Eddy was the author of a manual on the cultivation of celery, probably the best treatise of the kind extant, his own practical experience and extended travel and observation having especially fitted him for this work. Mr. Eddy's kindly personality made him hosts of warm friends wherever he went, and his untimely taking off will be sincerely mourned by many friends among the seedsmen, florists and gardeners. There has probably never been a more popular traveler in this trade than "Burt."

Robert Craig telegraphs from Philadelphia: "We shall all miss the welcome visits of Burt Eddy. Genial, kindly, considerate, well informed and faithful, he made friends everywhere. The trade has lost one of its most useful men."

Wm. Scott voices the general sentiment with regard to him in the following telegram from Buffalo:

"'Burt Eddy,' silently but too truly comes the words, 'Burt Eddy dead,' and at this writing we know no particulars, simply that friend Eddy has gone over to the great majority. When in a few years he that reads these lines, as well as he that writes, will be numbered among the dead, there may be some who knew Mr. Eddy more intimately than the writer but none who appreciated more his unique and picturesque personality. People speak of a big heart only figuratively, but if the heart were the organ from which emanated courage, generosity, wit, wisdom and kindly feeling for all mankind, then Eddy's heart would fill up that magnificent chest which was his. It is lamentable that Mr. Eddy has to leave us in the prime of his life, physically a giant, mentally head and shoulders above the average man. With his ponderous weight he was yet an athlete, a fascinating and lovable man. When Burt Eddy appeared we forgot the troubles and cares of life. The twinkle of his eye, the dimple on his cheeks, his comic grimaces as well as his serious sober business talks will ever be remembered while memory lasts. We mourn sincerely with his bereaved family and can only offer the solace that he, husband and father, never grumbled at his lot in life, except that his business called him too much away from his dear ones. To know Burt Eddy was to love him. We deeply mourn his loss."

Acalypha Sanderi.

The new plant heading this note is in Philadelphia. It made its debut here last week. It is certainly the most novel flowering plant that has been introduced for many years. There is a controversy in Europe as to its identity, some authorities claiming that it is a re-introduction and that its original name was A. hispida. Whether this be true does not detract from its value to-day, provided those who think they know a good thing when they see it are not mistaken in their estimate of its value.

The plant has the appearance of being so distinct and useful as to take its place at once as a standard flowering subject among the long list we already have. All the acalyphas heretofore seen, so far as I know, are grown for the beauty of their foliage alone, but this variety's claim to popularity will rest on its tassel-like, showy red flowers. The specimen which Robert Craig brought from New York is fifteen or eighteen inches high, and the tassels which are produced from the axils of its ample leaves are in some cases over a foot in length, gracefully drooping all over the plant and making a beautiful object which cannot fail to be a winner and sell on sight. It appears to be an ever-bloomer, making it possible to have it in bloom at any time, and especially at Christmas and Easter.

A. Sanderi is an introduction of F. Sander & Co., England. Julius Roehrs, Rutherford, N. J., it is stated, owns an interest in the stock and is propagating it for distribution in the United States. Mr. Robert Craig thought, when he saw this

novelty the other day, that to have a plant at his establishment would aid in taking orders for many more plants than would be possible by depending upon the description alone. This valuable acquisition, I believe, is to be disseminated some time this month. EDWIN LONSDALE.

[The accompanying illustration is reproduced from page 1285 of our issue of May 28, 1898.—ED.]

CARNATIONS.

CULTURAL NOTES.

October 1.—Some growers imagine that it is as easy to grow carnations as to grow radishes or geraniums, and so it is if you simply want carnations regardless of quality. To grow carnations that are strictly first-class is not one whit easier than to grow good roses, in fact it is not so easy. In the case of the rose a variety stays in culture long enough to give the grower a chance to study its requirements and needs and he can go to work after the first year or two with a reasonable assurance of success. In the case of the carnation a variety has scarcely become disseminated before another one displaces it because it is just a little better, and so it goes, year after year.

Almost every variety, to produce its very best, requires treatment slightly different from every other sort; some will take a few degrees more heat; some will stand unlimited feeding, while others would resent it; some will stand spraying and others will be almost killed by it. These are the principal differences, but there are a hundred and one other minor matters, all of which require constant watching.

The average carnation grower, with probably fifteen varieties on his place, will have to have at least five or six slightly different cultural methods to obtain the best results all around and as some of the varieties are no doubt new to his soil, it is the part of wisdom to take a careful look over the place at least twice a week and note the difference in growth and judge their requirements as nearly as possible.

If they are growing too soft and making weak stems they can be stiffened by adding a little lime to the soil, giving all the ventilation possible, keeping the soil on the dry rather than the wet side. If a variety is backward and does not show vigorous growth it may be helped along by the application of some good fertilizer. Sometimes a bench or part of a bench will be backward, sickly and weak, and if you look at the soil it will be found to have soured because of overwatering. Lime applied to such soil stirred up as deeply as the roots will allow will help to overcome this condition if no water is given until the soil has become well dried out and regained its sweetness.

At this season of the year constant attention must be given to watering because the full ventilation on the houses will aid evaporation, and the plants not being fully started they must not be allowed to get dry enough to check their growth. At the same time it must be borne in mind that the soil has not yet been filled with roots and will not take as heavy watering as it will require later on.

Ventilation is another thing which demands special attention at this season of the year, as the nights are getting decidedly cool. Here is where the different varieties come in; one sort will stand the ventilation on day and night quite late in the season and be all the better for it, while another will, if treated to the same dose, give split calyxes and stunted growth for six weeks afterward. These latter sorts will want a little heat on the houses whenever the outside temperature drops to 40° and if the houses get warmer than 50° or 55° a little ventilation will be required, as there is almost as much danger in letting them remain too warm over night as in letting them get too cold.

Do a little judicious trimming as you go over the houses. Deformed buds, sickly branches or anything that detracts from the appearance of the plants should be carefully cut out and thrown out of the houses as well; on no account allow rubbish to accumulate in your paths or under the benches.

In many sections the plants have quite a lot of dead and dry leaves around the bottom as a result of drought. Some growers advocate clearing these off, and from a point of cleanliness this should be done, but for the general health of the plant they had better be left on, as it would be an impossibility to take them off in anything like a thorough manner without tearing the bark of the plant and injuring it more than the cleanliness will benefit it. ALBERT M. HERR.



ACALYPHA SANDERI.

THE CARNATION IN CUT FLOWER WORK.

The past two or three years have worked wonders for the carnation as a cut flower. From an humble position among the tuberoses, bouvardias and such things, useful as boutonnieres and "filling in" for funeral designs, it has risen until it is the peer of the rose, a flower of the first rank. To the carnation grower is the florist indebted more than to anyone else for this splendid addition to his limited list of high class material. The carnation growers have sacrificed not only time and space in their greenhouses, but buds and flowers innumerable in their laudable endeavor to produce blooms of the highest perfection and their discretion and foresight have now been rewarded, for the people are beginning to appreciate it and the carnation has to-day hosts of adherents and admirers. The flower buying public came to it gradually. The full appreciation of the carnation has grown upon them. They have learned that if absolutely fresh it will not "go to sleep" within twenty-four hours and this, its excellent keeping quality, is one of its strongest recommendations. Fragrance is another mainstay of the carnation with the flower lover; size and form are for the connoisseur but fragrance appeals to the masses. The short stemmed carnation of the olden time has passed almost out of the memory of the public of this decade and the plebeian position it occupied is forgotten by the flower buyer of to-day; con-

sequently, he is prepared to give up almost any price for flowers of excellence and the dealer finds that under present conditions he can sell a dozen carnations for $3 as easily as for 50 cents, if they are worth it. Fancy varieties, well grown and perfectly fresh, are readily disposed of for high prices and in addition to this the dealer gains the respect of his customers by supplying them with these flowers, which are sure to make a good impression wherever they go.

We find that we seldom have to throw good carnations away, for it does not take our customers long to establish the carnation habit. Having once learned of its good qualities, they are sure to come back for more; but the moment we begin to handle inferior stock, this advantage is lost. Bear in mind always that a cheap carnation is dear at any price. If improperly grown, it is fragile and will not keep and thus one of its best recommendations is lost. It pays the carnation grower to give his closest attention to bringing his product to the highest degree of finish and it pays the retail florist to refuse to handle anything but the best quality. If he follows this advice he will find that the carnation will quickly make friends for itself and for him.

In using carnations for any kind of floral work, more freedom in the indiscriminate mixture of color is permissible than is the case with roses, but in all cases the proper accessory for harmonizing their various colors is demanded, and that is the subdued green of the carnation's own foliage. No other green will compare with it. It is not conspicuous and it takes only a little to bring out the full effect of the carnation's colors. Carnation growers are advised to plant a lot of some vigorous growing variety for the sake of the green alone and make it a rule to put a few spikes of foliage with each bunch of carnations they prepare for market. It will be appreciated by the trade and by the flower buying public.

New York. W. A. BRIDGEMAN.

CARNATION HOUSE.

ED. AM. FLORIST:—Please advise as to the best width for a carnation house running east and west, and state how the benches should be arranged so as to have some of them wide enough to wheel in the soil. State also whether it would be advantageous to construct the roof with a three-quarter span to the south and whether there should be a path next to the north wall. Give width of paths and benches. V. X.

It would be a very presumptuous thing for any one to attempt to state positively what is the best width for the above, or any other greenhouse structure. The next house we build (unless further experience modifies our views) will be detatched, even span, east and west. It will be 31x125 feet from out to out of the posts with about eight feet three inches rise from plates to ridge and continuous ventilation at the ridge, either three feet on one side, or two feet on each side, and continuous ventilators in each side wall. These will be wooden shutters without glass and eighteen inches wide. The north and south benches will be three feet wide and ten inches away from the sheathing, to avoid drip. Adjoining these will be twenty-inch walks and in the center a twenty-foot bench divided into three six-foot benches by means of two twelve-inch walks. Considering cheapness of construction, ease of working, light, ventilation, and large bench area in proportion to glass used, we have been unable to evolve anything better than this. It should be noted that the writer has not seen a house of this size and arrangement in use. W. N. RUDD.

AMONG THE GROWERS.

J. F. Klimmer, Oak Park, Ill., has displaced Lizzie McGowan for Flora Hill, of which he is growing 2,000 plants. He has 1,200 Tidal Wave, 1,000 Scott, 500 Triumph and smaller lots of Argyle, Evelina, Gold Nugget and Dazzle. He grew Morello and Thomas Cartledge last year but did not repeat the experiment.

Anton Then, Chicago, has doubled last year's stock of carnations and now has 12,000 plants in excellent condition. His leading varieties are Scott, Daybreak, McGowan, Jubilee, Argyle and Tidal Wave. Of the novelties he favors Mrs. Bradt and Mayor Pingree and has planted largely of them. He gives both Argyle and Jubilee a high rating and is also growing many Flora Hill and several hundred each of Bon Ton, White Cloud, Evelina and Empress. Instead of following his houses of chrysanthemums with carnations he will use the room for pot plants, especially hydrangeas, which are in fine shape.

W. N. Rudd, Mt. Greenwood, Ill., makes Jubilee his leading variety. His other principal sorts are Mayor Pingree, Flora Hill and Mrs McBurney. He has found merit in Cerise Queen and is growing a considerable number of it. Neither Scott, McGowan nor Daybreak are accorded large representation in his houses. Mr. Rudd is one of the few about Chicago who grow carnations under glass all summer.

John Didier, Chicago, is growing 35,000 plants, an increase of about seventeen per cent over last year. His leading variety is Lizzie McGowan, of which he has 8,000 now on his benches. Of all the novelties he considers Evanston the best and is growing 6,000 of them.

Emil Buettner, Park Ridge, Ill., is growing 15,000 carnations, principally Wm. Scott, Flora Hill and Lizzie McGowan. He has planted only limited numbers of the newer sorts and has discarded Portia, deeming it too small for a profitable commercial variety. With Mr. Buettner Scott and Hill have made the best growth.

Weber Bros., Chicago, have 16,000 plants in their houses, divided as follows, 4,000 Scott, 4,000 McGowan, 5,000 Daybreak, 1,500 Tidal Wave, 1,000 Argyle, 500 Mrs. Bradt. They have for the past three years grown a sport of Lizzie McGowan, but of the color of Argyle, which gives unusually large flowers and which they prize very highly. Their stock is all in good condition.

Reinberg Bros. are delighted with the way stock is coming on at their big establishment at Summerdale. Their white and pink blooms have rarely been excelled at this season of the year and their cut is increasing rapidly. They grow 13,000 Scott, 11,000 McGowan, 8,000 Nancy Hanks, 7,000 each of Pingree, Jubilee and Flora Hill and lesser numbers of many standard and new sorts. They have sold many thousand field grown plants this fall and are still making large daily shipments.

The Chicago Carnation Company, which has its establishment at Joliet under the management of James Hartshorne, has but recently completed the planting of its new houses. There are 40,000 carnations on the benches, principal among them being 6,000 Jubilee, 4,000 Mrs. Bradt, 4,000 Victor, 3,000 Flora Hill, 2,000 each of Gold Nugget, Mrs. Jas. Dean, Evelina, Argyle and Daybreak, 1,000 each of Empress and Mrs. Joost, with lesser numbers of many other sorts. They have about 1,200 tested seedlings and 300 which are receiving their first year's trial. Their stock is all in fair condition and of all the new varieties Mr. Hartshorne finds Evelina most promising.

THEORY VERSUS FACTS.

Perhaps some of us carnation enthusiasts are "too previous," but we are not afraid to back down if it is necessary to do so. Were all our ideas successes the business would soon become so monotonous that I, for one, would quickly get out of it.

In the future I shall make a distinction between what I know to be a fact and what I think to be a fact. If any of the AMERICAN FLORIST readers have been misled by my statements I humbly beg their pardon and assure them that it was not from an exalted idea that I know it all, but simply an oversight in not making the distinction above mentioned.

My theory that a carnation grown indoors continually is unfit for propagation is a theory not based on my own experiments, but on such observations as I have been able to make. I have visited quite a number of houses that are devoted to carnations grown indoors all summer and have yet to see the house that I would exchange for one of my own filled with field-grown plants, and I certainly would not want cuttings from any of the indoor stock that I have been fortunate enough to have seen growing.

I am quite as anxious as anyone to be able to grow my stock inside during the summer, as it would, I am sure, on the quantity I grow, mean a saving of anywhere from $500 to $1000 annually. If we could have a paper read before the American Carnation Society by the man who can make them "grow like weeds" and one by Mr. Rudd, both on indoor culture and their methods of procedure, perhaps some of us novices could get an idea how to start on the road to success.

My theory, which is to be designated by a "twelve-inch label," is not a theory, but a statement of natural laws and facts. Perhaps the man who propagates from forced and stimulated stock season after



ESTABLISHMENT OF JAMES MORTON, CLARKSVILLE, TENN.

season can eventually work up a variety, but I very much doubt it. If anyone who is interested in building up a variety will read my article on pages 143 and 144 of the AMERICAN FLORIST he will see that I am careful to state that "the plants should be grown along in a moderate temperature and allowed to bloom, then if there are any plants that produce inferior flowers they should be pulled out." It would certainly be "bosh," and worse than that, to grow them cold and not allow them to bloom, for in that case there could be no selection of the fittest plants and no building up of the variety. No man who started to build up a variety would be so foolish as to allow himself to overpropagate, for he would in this case be defeating his own ends.

ALBERT M. HERR.

Evergreen Lodge.

This is the name by which the commercial establishment of James Morton, Clarksville, Tenn., is known. Mr. Morton took possession of the place a little over a year ago, and within that period he has entirely remodeled it, adding two new greenhouses 20x125 feet, with all modern improvements. The place is now considered one of the most attractive and best equipped in the south.

ROSES.

PRACTICAL ROSE GROWING.

One of the most successful rose growers in the vicinity of New York City is Ernst Asmus, of West Hoboken, N. J. His place is about an hour's ride by ferry and horse car from the metropolis and those interested in rose growing or forcing any kind of flowers under glass should have his name near the head of their visiting list. There are several large ranges of houses, all running east and west, and all, or nearly all, especially the new ones, even span.

It is the new style houses that especially attract one's attention. On entering one of these from the shed it is like going out of doors, there is such a flood of light. There is so little to obstruct the view that one can see into and through the second and even the third adjoining house, although each is separate and complete in itself, six feet from its neighbor. There is no eave sill. These new houses are seventeen feet wide by 108 feet long, sides five feet high, even span, with seven and one-half inches rise to the foot. The extreme width of each house at the eaves is seventeen feet six inches. The glass from the roof overlaps the thirty-inch glass on the sides about one-fourth of an inch, which Mr. Asmus says is sufficient to carry off the water, which drops to the ground, there being no gutters. The sides have but one pane of glass sixteen inches wide by thirty inches long, which slants three inches from the perpendicular until it meets the roof. This prevents the water from running down the sides and also seems to reflect light into the house. About thirty inches of woodwork (weather boarding) completes the sides.

The amount of light gained by substituting glass for wood on the sides and doing away with the cumbersome sill is astonishing. The ventilating apparatus is of Hitchings' make, the sash being hinged at the top. The rafters are of bent wrought iron fastened into cast iron bases, an idea of Mr. Asmus'. The only woodwork about the structure is the ridge pole, the light sash bars and the weather boarding. This type of house has been evolved gradually from the careful observation of the most practical growers. For years horticultural builders went ahead without consulting practical florists and erected houses great architecturally but not especially adapted to forcing plants. When the brightest men among the growers and the best greenhouse builders got together this question of practicability was solved in the houses just described.

In these houses there are two five-foot eight-inch ground beds with three-inch concrete borders separated in the center by a fifteen-inch path. The side walks are twenty-four inches wide, next the glass. The heating is by steam, all the pipes being attached to the woodwork at the sides except two flows which are laid under the center path, made of wooden strips, and then return under the center of each bed. The foundation for these beds is of stone with some six inches of soil. The drainage by this system is perfect; the roots get down among the cool stones and it does them a lot of good, so says Mr. Asmus.

The roses are mulched with old manure as soon as planted, so as to get a free growth at once, the wood being hardened after as desired. Liquid manure is used after the holidays, none ever being given to young stock. A bench of Meteors is planted in pure soil, no manure, to see if it would have any effect in doing away with the bull heads so common to this variety. A house of carried-over Beauties is full of growth but not producing as many buds as appeared on new stock. A house of the new rose, Liberty, grafted on Manetti and planted in June has made a very strong growth. Mr. Asmus thinks this will be a winner, as it never produces a bull head, is brighter than Meteor in color, with the fragrance of La France and is fully as large. His own new rose, Columbia, is the most prolific Mr. Asmus has ever grown, he having cut twenty-two blooms per plant in a period of only two months.

When asked whether he thinks there is any advantage in grafting roses Mr. Asmus said he considers it a benefit for summer forcing roses, such as Kaiserin, but he is not so sure about those for winter forcing, although others have been successful. He believes Mr. Simpson has cut fifty-two Maids per plant from grafted stock, while on its own roots his best record is thirty-six. He also has cut sixty-six per plant from Morgan in a season.

Wherever he can in a rose house Mr. Asmus turns a side table into a path, as the side benches produce so many deformed buds and flowers with crooked stems. The life of a house is also lengthened by a free circulation of air next the walls. The evolutions of the business were clearly demonstrated here, in one instance by a lot of Brunners in boxes which were not to be forced again, as there is now so little sale for hybrids, and another change was seen in great piles of sash offered for sale cheap, yet the foundation of this successful man's business was laid under those very sash.

ROBERT KIFT.



BEGONIA KNOWSLEYANA.

Begonia Knowsleyana.

This variety makes one of the most graceful specimens for general decoration that has been met with so far. It is a free grower, and a profuse bloomer, and its habit is all that can be desired. It blooms at all seasons of the year. This is determined by the time the seeds are sown, or the cuttings started. It reproduces itself true from seed, as the illustration shows, which is made up of a dozen seedlings. The seed was sown September 18, 1897. These plants have been in full bloom for the past three months, and at present are finer than ever. Its origin and native place seem to be unknown. It is figured in the *Journal of Horticulture*. Vol. 3, Fig. 89, with an item from Wm. Taylor in the number of December 22, 1881, in which he says: "I first became acquainted with this begonia at Knowsley, the seat of the Earl of Derby, some twenty years ago, and it has been my companion ever since. I am of the opinion that it is a distinct species, imported by one of the collectors of a former Earl

of Derby. I often heard the laboring men speak of a botanist or collector who used to be allowed to attend to some of his own pet plants in the gardens, I forget his name, but it was a well known one. Was it Nuttall?"

One hundred and seventy-five seedlings were grown on here, and all proved to be like the parent. Some authors speak of this variety as being a hybrid, yet they tell us hybrids will not perpetuate themselves true from seeds. There is plenty of material here for discussion at some future time. But for the size the flowers could not be distinguished from those of B. acuminata. The color and form are identical. The leaves are two and three-eighths inches wide by four inches long. Flowers, males. two and three-eighths inches across; color blush white, reddish pink when grown out of doors.

JOHN COULSON.

Dracaena Terminalis.

This plant has never attained the popularity it deserves on account of its seldom or rarely being grown to the highest state of perfection in this country. As produced for the Covent Garden market in London, it is a great favorite and particularly so about the holidays, its brilliant colored foliage being in direct keeping with the festive period. It will stand liberal feeding; in fact some sort of stimulant is necessary to bring out its high color. From a cutting in the late winter or early spring a fine plant in an 8-inch pot can be produced for the Christmas trade, if kept growing right along without check. The usual method is to root from canes and then by successive shifts or planting out on a bench keep up a steady growth until a good sized plant is obtained. This is then cut and bound with moss in much the same way a rubber is treated. Roots soon make their appearance, when the cutting is removed and potted. This plant now has broad leaves from the pot up and when it attains its growth and color in the late fall, we have indeed a perfect specimen. Meanwhile the parent plant immediately shoots out and provides young stock in abundance. It is thought this method will soon provide enough stock to render the importation of stock canes unnecessary.

K.

Hardy Herbaceous Plants.

Now that the very hot weather has left us the flowers are showing up to better advantage. We notice that aster Mackii, said to be from Europe, does not grow more than one and one-half to two feet high; it is compact in habit. The individual flower heads are large, very regular, and produced from the middle of August to the middle of Semptember; color bright purple-blue. Helenium autumnale superbum attracts attention with its dense clusters of bright yellow flower heads, which will continue in beauty till cut off by frost.

The different species and varieties of helianthus give us variety of habit and different shades of yellow, varying from light lemon to bright gold. H. mollis has distinctive woolly stems and foliage with lemon yellow flower heads of good size. H. decapetalus forms dense clumps three to five feet high and is covered almost from the ground with small, bright lemon colored flower heads. H. multiflorus Soleil d' Or makes similar masses of growth, with large leaves, and produces an abundance of large, double, deep yellow flower heads, which are good for cutting from August till frost. This needs covering with some light material in exposed situations in this section. H. giganteus is one of the tallest of the family, growing from eight to ten feet high; the foliage is long and narrow and the innumerable lemon yellow flower heads are produced on branches from quite near the ground H. orgyalis grows to the height of eight to twelve feet, and has long narrow foliage. The flower heads are produced nearer the top, with yellow ray florets and black disks. R. laciniata var. Golden Glow is so well known now that it does not need a description. Its only fault as compared with Helianthus multiflorus plenus is that it does not have such a long flowering season. In other respects we think it far superior for cutting and border decoration. The stems are rather bare, but this is easily remedied by having it at the back of, or surrounded by, other plants.



DRACÆNA TERMINALIS PLANTED ON BENCH FOR RAPID GROWTH.

are of a bright golden yellow and are not developed till H. giganteus is nearly through flowering.

The hardy varieties of herbaceous hibiscus are showing up grandly, as they have been for several weeks past. The foliage is handsome and the flowers very showy and unique in appearance. H. militaris grows from two to four feet in height, and produces salmon pink flowers four inches in diameter. H. Moscheutos attains the height of three to four feet and produces flowers fully six inches in diameter, which vary in color from light pink to clear rose pink. H. Moscheutos Crimson Eye differs from the type in having pure white flowers with a dark crimson eye; the flowers expand more fully and show their full size and the foliage also differs in having a distinct bronze tint. All the hibiscus mentioned require a deep rich soil and to fully develop must not be allowed to suffer in the least from dryness.

Liatris pycnostachya is a distinct late summer flowering species, growing four to six feet high and producing long cylindrical spikes of purple lilac flowers. Pentstemon Lyonii is similar in appearance to P. glabra, turtle head or snake head, but differs in having clear rose purple flowers; height one to two feet, foliage broadly lanceolate, dark bright green flowers produced in threes at the axils of bracts.

Rudbeckia subtomentosa sometimes catalogued as Helianthus subtomentosa, is a very handsome strong growing fall flowering species, height four to six feet. The foliage is divided somewhat like that of R. laciniata, but is of a darker green and the short hairs give it a slightly glaucous tint. The flower heads are large,

Silene Schaftæ is showing up well in the front row, and will continue covered with its pink flowers till frost cuts them off. It forms neat little mounds of small bright green foliage. Veronica longifolia var. subsessilis is about over now, but its long spikes of purple blue flowers have shown up well for the last month. It grows to a height of two to three feet and has handsome, dark green, lanceolate, crinkled foliage. The flower spikes alone are quite often considerably over a foot long and have several branches. It well deserves the name of giant speedwell.

Massachusetts. R. N.

Rudbeckia Golden Glow.

In the issue of this journal for October 24, 1896, this plant, then a novelty, was illustrated. Nearly two years later I again photographed the same group and the picture is here reproduced. This species has now been widely disseminated, forming one of a trio of most excellent recent introductions, Hydrangea paniculata grandiflora and Clematis paniculata being the other two. It is a singular fact that they all bloom late in the season, when most needed, and are all of the easiest culture. Each requires an ample supply of moisture for the best results, and are perfectly hardy. Luckily they combine three divisions of plant life, the shrub, the perennial and the vine. Japan furnishes two of them and the western prairies the third, the Rudbeckia laciniata fl. pl.

We are all familiar with the black-eyed Susan, the Rudbeckia hirta of the botanists. R. laciniata is a near relative, and in its typical form somewhat resembles it, except that the disk flowers, those minute blooms covering the cone, are a dull

greenish color, instead of yellow, and the whole flower larger. In the doubling up of the Golden Glow, these disk flowers have changed into ray flowers. The black-eyed Susan will thrive in dry soil, but the other being indigenous to the borders of swamps and low meadows, requires a fair amount of moisture. The origin of this double form is yet unsolved. About 1894 John Lewis Childs found it in his grounds among some unknown plants sent him by some of his customers. From it he increased the stock that has, in the main, reached the gardens of the United States and Europe.

While I bought three plants in the spring of 1896 from Mr. Childs, I had three given me in the fall of 1895 by Mr. Jensen, the superintendent of Humboldt Park, Chicago, who called it a double R. laciniata. Mr. Childs gave it the name Golden Glow, and I bought from him in order to compare it with those received from Mr. Jensen. They proved identical. Mr. Jensen had seen, in the fall of 1895, a large clump of it in the garden of a German in Chicago who had received it a year or so before from a relative, and traded some geraniums for a few roots. This traces it back to 1893 or 1894. At this latter date it was blooming both in Mr. Child's place and in Chicago.

A writer in an English paper about a year ago claimed that it was introduced to English gardens nearly twenty years ago under the name R. lævigata. Mr. Wm. Falconer, of Schenley Park, Pittsburg, Pa., dispelled this illusion in a clear and forcible manner. The mere fact that a plant so attractive in all its parts, so hardy in constitution, so readily grown and rapidly increased, was unknown in this country until within the past few years, even in the largest collections and among the most intelligent professionals and amateurs, is evidence enough that it was not known in English gardens twenty years ago.

The group illustrated is composed of the three plants obtained from Mr. Childs which were placed in their present position in the spring of 1896. Some young plants from the outside of the group have been taken away. The group is supported and protected from damage by the winds by an iron hoop four feet in diameter placed about four feet from the ground and fastened to four strong stakes set among the plants. This is put in place when the plants are some five feet high. The hoop—which is of round iron—is slipped over nearly all the plants. Enough of the outer row of stalks are left outside the hoop to hide it and the stakes; these are then distributed evenly along the hoop and tied loosely, allowing each stalk three or four inches play. When a heavy rain accompanied by winds comes they are apt to become top heavy and may break. In such cases I run temporarily a heavy but soft string around the whole group, well up towards the top, and draw it in quite closely—thus bunching it as one would a sheaf of wheat. This is removed when the storm is over and the blooms dried off. In this way one stalk supports the other and damage is seldom done. It is such a striking ornamental group upon the lawn, that it pays to devote some extra care to it. The drip from a lawn hose connection is carried under this group by tiles, thus affording it an extra amount of moisture. Where plants are not given enough water the blooms are smaller.

Mr. A. Herrington, of New Jersey, is blooming this year the English plant under the name of Autumn Glory, and we would like to hear from him. W. C. E.

Advertising Exhibitions.

It might seem to the enthusiastic amateur horticulturist, or even the professional florist and grower, that the promise of rare combinations of fragrance, beauty and novelty, as provided by the annual chrysanthemum and other shows, would be sufficient to attract attention and insure attendance, but it falls a long way short of awakening public interest in these prosaic and practical times when the best advertising medium is the one that penetrates every nook and corner of the community and captures the temporary or permanent remembrance of the observer. This has been drummed into the different organizations and individuals who have directed the affairs of these great exhibitions throughout the country by bitter and costly experience, for it is natural to infer that public affairs and busy commercial as well as social interests will pause without special solicitation long enough to view the feast and enjoy the wealth of harmony and fragrance, wherein lies a mistaken judgement, and of late the question of the best form and method of advertising an exhibition has become an important one.

Local conditions have an important bearing on the subject, especially with regard to the attitude of society toward the exhibition, in some parts of the country the show being considered the principal social event of the year, in others of equal interest and attractiveness to all grades and classes. First of all, under any and all circumstances, comes the inestimable value of the daily newspaper, with the valuable assistance of weekly and even monthly publications, in centering public interest on the approaching exhibition and holding it there. To obtain full results the entering wedge should be driven months prior to the dates selected for holding the show, and the secretary of the local organization can do no better work for the success of the show than by sending to the newspapers newsy little paragraphs every few weeks during the entire year. The value of this is apparent when it is realized that popular interest, not among the horticulturists, florists and allied forces, but with the great outside public, who know nothing of flowers and plants but their common names and attractiveness, is increasing every year, and the interest is stimulated to the expectant point by this very process. Again, the amateur horticulturist finds an incentive to prepare for an exhibit or possibly indulge in the extravagance of some particularly fine importation.

But the real advertising begins with the near approach of the exhibition. The plans formulated during the year are outlined in the newspapers, dates, location, scope and main features are incorporated in articles that are increased in length and information-dealing material, accom-



RUDBECKIA LACINIATA FLORE-PLENO.

panied by illustrations of anything that has direct bearing on the event. Of special importance are the novelties and the unusual features to be represented. Preliminary catalogues must be liberally distributed and the special classes and exhibits made prominent. A certain amount of careful bill posting should be done, according to the locality and custom. To properly bill a city like Chicago would cost several hundreds of dollars, but an artistic and appropriate design for twenty-four sheet, ten sheet, three sheet and one sheet posters, and the subject affords untold opportunity, can be used to great advantage, selecting prominent locations in the different parts of the city for this display. When it comes right down to the most direct and valuable advertising and a limited fund for the purpose, the newspaper and bill posting cover the principal points, although street banners, street car placards, window streamers and other local mediums have their value. Then comes the all-important work of the press agent, who has already told the community of the possibilities and probabilities of the exhibition. Novelties, competitive displays, special decorations, presence of notables and innumerable items from day to day sustain interest when exploited and the more variety that can be added as the exhibition progresses, the more the show advertises itself. Fakes or other illegitimate features may arouse temporary interest but are apt to have bad results. In all instances local interest should be carefully observed, especially the advertising mediums, of which the newspaper is the most valuable in any event. GEO. S. WOOD.

Notes on Watering.

In your issue of August 20, "E. L." asks: "At what temperature does water do injury to plants growing under glass?" He means, of course, to inquire how low the temperature of the water may be without causing injury. After two years' endeavor to solve this problem the writer feels competent to make a few general statements:

First. Water at 35° Fahrenheit does not injure coleus, begonias nor geraniums.

Second. Similar plants treated with water at 50° Fahrenheit grow equally as well as those watered with water at 65° and 86° Fahrenheit.

When this work was begun the station greenhouse contained only a general collection of bedding plants besides a few roses and carnations. As the latter were bedded out it was determined to select the above named species for trial. In order to start at the beginning, cuttings were selected from healthy plants and put in sand in small flats two and one-half inches deep and these placed on a propagating bench, side by side. Twelve boxes were prepared, four of coleus, four of begonias and four of geraniums. All possible care was exercised in order to have the cuttings as nearly uniform and vigorous as possible, and in order to accomplish this the cuttings of each species were all taken from the topmost shoots of a single vigorous plant. After the cuttings were set, one box of each sort was watered with water at 35° Fahrenheit, one at 50°, one each at 65° and 86°. All the cuttings were thoroughly drenched as needed, and, when rooted, were potted, properly labeled and the watering continued in the same manner for several weeks.

The temperature of the house was kept at 60° at night during the first part of the experiment and reduced to 55° later. The coldest water was obtained by using a sufficient quantity of finely crushed ice to bring the temperature of the water down to the required point. At every watering the foliage was sprinkled as well as a sufficient quantity given at the roots.

The lots were closely compared from time to time by measuring the height of the plants and it was found that all grew well but that the 50° and 86° lots were growing taller than the others and that between the 35° and 65° lots there was but a slight difference in favor of the 65° lot.

The different lots were always subjected to like conditions of light and heat, and yet, as a rule, the warmer water appeared to induce an elongated or "drawn" growth as compared with the cold water lots, which always appeared short jointed and stocky but well colored and healthy. It was remarked during the course of the experiment that these were as large as the warm water plants, and at the close this was found to be true when the plants were all weighed and the results showed a slight gain in favor of the 50° lot.

The temperature of the soil about the roots of the plants was determined both before watering and at intervals afterward. While the soil temperature was perceptibly lowered by the application of ice water it soon regained its original temperature, the time required depending upon the temperature of the house, sunlight, etc. In sunlight with a house temperature of 75° it required but three hours to rise to the starting point.

In stating these results all tabular detail as to measurements and thermometer readings have been purposely omitted. These, with a full account of the work done, may be found in the fourteenth annual report of the Wisconsin Experiment Station, pp. 316–321.

The facts here noted, with much intangible evidence such as comes to every one who follows the growth of plants, convinced me that the temperature of water as applied to plants under glass had but little if any influence on growth if between the limits of 35° and 100° Fahrenheit. In order to test this theory further trials were made during the past year both under glass and outdoors. Unfortunately the results of these experiments can not be given now as the material for the fifteenth report is now on its way to the printer.

At a later date I hope to be able to place before the readers of the AMERICAN FLORIST facts and figures that will give much more light on this subject. In closing I will repeat that after two years' attention to this subject I am convinced that the commoner greenhouse plants may be watered freely with water at or below the house temperature without fear of injury. FREDERIC CRANEFIELD.

Madison, Wis.

New York.

FALL EXHIBITION OF THE AMERICAN INSTITUTE.—A SPLENDID DISPLAY OF DAHLIAS.—SANDER'S NEW ACALYPHA SANDERI CREATES A SENSATION.—FLOWER TRADE LOOKING UP.—A PORTO RICAN EXPEDITION.—EARLY CHRYSANTHEMUMS.—AUCTION SALES—RETURNING TOURISTS.—E. V. HALLOCK TO ADDRESS THE FLORISTS' CLUB.

The horticultural exhibition of the American Institute opened on Monday, September 26, at the Academy of Design on Twenty-third street. All available room was well filled with exhibits of plants, flowers, fruit and vegetables. The American Dahlia Society co-operated in this show, hence dahlias predominated in the cut flower department. The displays of these brilliant flowers were very extensive, collections of innumerable varieties in all classes being shown by H. F. Burt, Lothrop & Higgins, W. P. Peacock, Rowehl & Granz, W. C. Winter, Rev. C. W. Bolton, W. H. Maule, E. D. Adams, F. R. Pierson Co. and others. Promiscuous garden flowers were staged by John Lewis Childs and A. Herrington. In the collection shown by the latter a beautiful flower of Gerbera Jamesonii attracted attention. The flower is single with long bright vermilion rays, and this is said to be in its first appearance in this country.

The sensation of the plant section was Acalypha Sanderi, now introduced by Sander & Co., and grown for this occasion by Julius Roehrs. Specimens of various sizes and ages were shown, all fully furnished with the pendant crimson, chenille-like tassels of bloom which are characteristic of this plant. The flower racemes depend from the axils of each leaf, 12 to 24 inches in length. Mr. Dinmock assures us that this remarkable plant is never out of bloom, hence its value as an all-round decorative plant cannot be overestimated. A large specimen of it was also shown by D. Willis James, Wm. Duckham, gardener. Mr. James' elegant collection of stove and greenhouse plants also included Dracæna Godseffiana and an enormous specimen of Dracæna Sanderiana.

H. A. Dreer showed a remarkable group of dwarf Japanese evergreens and filled several tanks with aquatic flowers, the borders of which were finished off nicely with decorative plants. Other interesting features of the show were caladiums from E. D. Adams, Geo. Hale, gardener; cannas and dahlias in pots from A. L. Miller, celosias, begonias, caladiums and ferns from Mrs. H. L. Terrell, J. Dowlen, gardener; and adiantums from Hon. C. N. Bliss, N. Butterbach, gardener.

Wholesale dealers talk encouragingly of present conditions in the cut flower trade, which are as good as could reasonably be expected at this season, as indicated by the experience of past years. Receipts are not heavy and stock is moving fairly well, extra good material being the compensating feature. The retailers seem inclined also to a sanguine view of the situation and instance advanced activity in "theatre work" as evidence that a season of liberal flower buying is approaching. The standard of quality demanded, however, continues to advance steadily, and every recurring season finds the retailers and their customers more and more fastidious and exacting.

An expedition is about to be dispatched to Porto Rico to study the flora of that island and collect specimens and information for the New York Botanical Garden. The work will be entrusted to Mr. A. A. Heller, who has recently returned from a similar trip to the Sandwich Islands, and it is understood that Cornelius Vanderbilt has volunteered to pay the entire cost.

Early chrysanthemums are beginning to appear in the florists' windows. Marquis de Montmort is the variety generally seen. John Young is receiving some good specimens considering the earliness of the date.

In the absence of J. P. Cleary at the Chicago sale his brother "Andy" is wielding the hammer. He is a star for a beginner, and his future as an auctioneer seems assured.

At the meeting of the New York Florists' Club on October 18 Mr. E. V. Hallock,

who has recently returned from a European trip, will give an informal talk on "Impressions Abroad."

On October 4 there will be a big sale of fine stock from Robt. Craig and W. K. Harris, of Philadelphia, at Wm. Elliott & Sons' auction rooms on Dey street.

Wm. Young is sending in from Clifton some unusually fine flowers of Kaiserin Augusta Victoria rose.

George Stumpp and son arrived on the steamer Kaiser Wilhelm du Grosse on Tuesday last.

Thos. W. Weathered arrived well and hearty on Saturday, 24th inst.

The San Jose scale has appeared on many trees in Central Park.

Visitors in town: Wm. Tricker, Riverton, N. J.; S. McClemens, A. M. Murdock and Walter Breitenstein, Pittsburg, Pa.

Boston.

STOCK SHORTENING UP.—LIGHT DEMAND.—GOOD SCOTTS SCARCE.—A FISHING TRIP.—A FAILURE.—LOCAL BREVITIES.

Local business is not especially active but the cold nights recently experienced have had the effect of keeping down the production, particularly of roses, and while the demand is rather light yet there is no accumulation of stock in wholesale hands. Carnations of real good quality are hard to find and where they are to be had they bring excellent prices; this is true of Scott perhaps more than of any other variety. Tuberoses are abundant and good. Asters have run out and such as are offered are very poor indeed. Chrysanthemums have not made their appearance yet in this market to any appreciable extent.

On Thursday a party of select officials of the Old Guard enjoyed a smelt fishing excursion on the good ship Fairy, commanded by Geo. A. Sutherland. All are doing well and there are a few more smelts left in the bay.

Geo. B. Redican, the "Thorndike" florist on Boylston street, has not been seen by his creditors since Friday of last week. Liabilities are estimated at $4000 and the assets are in the air.

The choice collection of orchids owned by W. W. Lunt has been sold to W. A. Manda.

The Massachusetts Horticultural Society holds its annual election of officers on Saturday, October 1.

Fred. W. Hiatt has been granted a discharge in insolvency by Judge Grant.

Welch Bros. are receiving and finding a fairly good sale for some very fine nymphæas daily.

Visiting Boston: Ulfred Rehder, Erfurt, Germany.

Chicago.

A BUSY WEEK IN LOCAL MARKETS.—SOME SPLENDID ROSES.—CARNATION CUT INCREASING.—CHRYSANTHEMUMS AND VIOLETS.—NOTES.

The past week has seen a considerable increase in both supply and demand, although the call for good flowers was better than that for stock of indifferent quality, and as a consequence really choice blooms advanced in price while the inferior ones declined. As is ever the case the rose market was that which received most attention, and of roses the star which holds the center of the stage is the American Beauty. There have not been enough of these to supply the demand for first-class stock and shipping orders are on file for the early days of next week which promise to cause a famine in the Beauty market.

Of Bride, Bridesmaid, Meteor, Kaiserin and Perle there has been a sufficiency, although in the first two sorts the quality has not been all that could be asked for. Better Kaiserin or Meteor than those the growers have been sending in during the last few days would be hard to find. The warm nights are chargeable with the open condition which has hurt the value of a goodly portion of the cut of all varieties.

Carnations have poured into the market this week, and have been of all sorts and qualities. As usual white and pink varieties have had the preference and some of the fancies have sold at from 2 cents to 3 cents each. But the average returns have been less than $1 per hundred and many inferior flowers have been sacrificed to the fakirs.

The chrysanthemums and violets of the week have come to the Kennicott Bros.' Company from E. H. Blameuser, Niles Center, Ill. The blooms sold well. Although the first flowers have made their appearance very early this season it seems to be the general report that the bulk and best of the cut will be somewhat later than usual.

Mr. Johnson of the local committee of the Chrysanthemum Society of America writes stating that the blooms of a new seedling, mentioned in our last issue as having been received from California, did not arrive, and are now reported to have been in a railroad wreck on September 14.

Siebrecht & Son disposed of a large quantity of stock at their auction sale on Monday, but although John P. Cleary officiated in his usual taking style, it brought only moderate prices and there was quite a number of plants on hand Tuesday. Some of these were sold during the week, and the sale, private and by auction, will be continued daily by J. Austin Shaw and John Thorpe until everything is cleared up.

Frank Beu, who had been employed at the greenhouses of Bassett & Washburn at Hinsdale, has leased the establishment of Keller & Hitzler, at 2880 North Fortieth avenue for a term of five years. He expects to add several large houses early in the spring.

Emil Buettner has accepted the invitation of the Florists' Club to address the members at their next meeting, October 7, and will tell of the many things which interested him upon his summer's trip to Europe.

Hundreds of friends in the trade extend their sympathy to George Stollery, whose little daughter, aged 2 years and 8 months, died September 21.

T. D. Mosconesotes was unable to supply sufficient proof to convict the three men whose confidence game cost him $1200 and they are again at liberty.

Visitors: Arthur W. Webster, Centralia, Ill.; Frank Stuppy, St. Joseph, Mo.; D. S. McKinstry, Kankakee, Ill.; J. G. Heinl, Terre Haute, Ind.; B. H. Ives, Albuquerque, N. M.

Cleveland.

STOCK IS DECIDEDLY SCARCE.—ROSES AND CARNATIONS THE ONLY BLOOMS IN MARKET.—FLOWERS FOR A FUNERAL.—GROWERS DO ROUTINE WORK.

Flowers have been decidedly scarce, owing partly to the weather, which has been wretched, and partly to the natural shortage which nearly always occurs about this time of year. Quite a noticeable revival in business also has contributed to bring about this condition.

Asters have entirely disappeared, as well as gladioli. Roses and carnations constitute almost the entire stock in trade just now. Prices are stiffening a little, indeed quite noticeably in the case of carnations, which wholesale at from $1 to $1.50 per hundred, while some few extra good ones go a little higher.

Probably no funeral ever occurred in Cleveland calling for so many flowers as that of William Edwards, a valued citizen of wide acquaintance, not only in Cleveland but throughout the country. Flowers came from friends in every walk in life and differed equally as widely in appropriateness and beauty, but the constantly increasing use of simple and natural arrangements was very evident and the greater part of the offerings were bunches, garlands and wreaths of various sizes. American Beauties were used in large numbers. In the set pieces a large scroll was one of the best. A huge broken column was also seen that was very good. There were some arrangements of orchids and lily of the valley, but by far the greater part of the work was done with roses and carnations.

Among growers not much outside of routine work is going on now. Many are still busy getting in their carnations. The earliest of the chrysanthemums will soon be in condition to cut. A.

Philadelphia.

PROSPERITY SMILES UPON THE QUAKER CITY.—STOCK CONDITIONS.—PLANT TRADE BARGAINS.—NOTES AND COMMENTS.

Things have begun to hum, not very loudly to be sure, but the sound is quite apparent. Beauties have actually been scarce and the mid-winter trick of telephoning out for some to ship by express and meeting the growers at the station has been resorted to in order to make sure of a stock for the day's business. The highest local price for 24-inch stems is $1.50 per dozen, 12-inch stock bringing from $4 to $6 dollars per hundred. Teas are improving although most of the stock offered does not bring more than $3 per hundred. Whether this market will take Meteor in quantity is to be ascertained by the Floral Exchange devoting its entire rose growing range, fifteen large houses, to this rose. Robert Craig & Son's grafted Kaiserins are now in full crop and they are sending in quantities of fine, long stemmed stock. A little mildew has begun to be seen on some growers' stocks and detracts considerably from the appearance and price.

Carnations are a little better but have a considerable distance yet to go before they will reach first quality. Most growers say their stocks are looking well. Lily of the valley is in good supply and J. H. Lukens, of Burlington, has had some good stock the past week. He says that stored stock has done very well with him this summer, the percentage of loss being small. He thinks it should receive moisture enough during storage to keep the pips plump and firm. John Burton is commencing to cut his house of Asparagus Sprengerii; the price is $2.50 to $5 per hundred sprays according to length, the short sprays being twelve to fifteen inches and the long twenty-four inches and over.

The plant men are becoming busy with the local store trade, rubber, and Boston ferns taking the lead. A lot of 500 twenty-four to thirty inch rubbers, together with jardinieres, were advertised at Wanamaker's this week for $1.25 each. Dreer offered a bargain the past week in Cocos Weddeliana, a number in 6-inch pots. They were original seed pots but had become too large to transplant into

single pots. The plants are about eighteen inches high and the number together gives them a bushy appearance. Some palm men say the cocos is done as a money maker as at the present low price there is scarcely more than a new dollar for an old one.

M. Rice and Jean Weiss returned the past week from a fishing trip into the wilds of Pennsylvania and you should hear Rice's big fish stories.

The next meeting of the Florists' Club, October 4, should call out a full house for H. F. Michell will tell of what he saw when abroad this summer. Mr. Michell is a close observer and from his thorough knowledge of the business he has no doubt stored up many valuable points that will be of great interest.

Wm. J. Baker was the first to handle chrysanthemums, having a half dozen very fine Lady Fitzwygrams on Thursday. K.

San Francisco.

BUSINESS IS IMPROVING.—CHRYSANTHEMUMS BRING GOOD PRICES.—ROSE QUALITIES.—CARNATIONS IN SHORT SUPPLY.—VIOLETS.—PERSONALITIES.

Business has picked up considerably and may be said to be quite good. Prices are holding up nicely and most of the florists are receiving good value for their good stock. Chrysanthemums of very excellent quality can be had, but as yet the supply is very limited. Last week they brought $5 to $6 per dozen at retail. M. Lynch is the only grower bringing in outside chrysanthemums, Mrs. E. G. Hill, Mrs. Whilldin and an early white being the sorts sought for. Mr. John Carbone, of Berkeley, is still bringing in his large white from the greenhouse, which still commands the highest figures. The Chinese growers, who raise immense quantities of cheap chrysanthemums in the suburbs of San Francisco, will, it is said, not be heard from very much this coming season on account of the scarcity of water for irrigation during the past summer. This will probably benefit the trade in many ways.

Now that the weather is a little cooler the quality of the roses we are receiving is much better than for some time past. Some fine Beauties are being handled and the quality of Bridesmaid is as fine as could be desired. Cecil Brunner is also largely called for. As most of the growrrs have not begun to cut from their new carnation stock, the supply is limited, but the fortunate ones are being well paid for what they have. Minnie Cook is the finest, closely followed by Pingree. Portia is beginning to come in from the new crop and sells readily. The writer saw some excellent Princess of Wales violets this week. Marie Louise, however, is the favorite on account of its fragrance. Even at this late date some fine sweet peas can be had, but the demand for them is poor.

A. B. Westland has resigned his position with C. A. Baldwin at Westside.

Florence, the infant daughter of Andrew McDonald, the foreman at Peter Donohue's, died Saturday, after a short ilness.

Emile Serveau spent six days at Menlo Park last week

Frank Pelicano & Co. have had a magnificent display of ferns and palms last week, which was greatly admired by hundreds of visitors.

Chas. W. Beebe, of the Trumbull & Beebe Co., was in San Jose last week on a business trip.

The last meeting of the California State Floral Society was well attended and a chrysanthemum show was discussed, but not decided upon. It will be taken up later during this month.

Sidney Clack is sending some very fine American Beauties into the market. Mr. Clack has been very successful with this rose lately and his entire stock is in excellent shape.

J. T. Usler and family have returned from a prolonged eastern trip.

Chas. Navlet was in this city this week.

John H. Sievers has some elegant azaleas on exhibition at his Post street store this week. His tuberous begonias are still greatly greatly admired and proving great attractions to visitors.

METEOR.

St. Louis.

WARM WEATHER IS NOT WELCOME.—CHRYSANTHEMUMS ARE IN.—MORE SHOW PLANS.—BIG BANQUET DECORATION.—CALL FOR FALL BULBS.

The return of warm weather has had the effect of stopping the improvement in business mentioned in my last notes. It has likewise had an appreciable effect on stock. Roses are just now rather plentiful, and carnations are coming in more freely than for several weeks. Chrysanthemums have made their appearance in the market, and from a look over the growers' houses the earliest varieties will be in full swing within ten days.

The chrysanthemum show committee has in press the second preliminary list of prizes to be offered at our annual show, and those interested should address Emil Schray, 4100 Pennsylvania avenue, for a copy.

About the largest social function thus far this season was the banquet of the National Carriage Builders' Association at the Southern Hotel. The decorations were made principally of American Beauty, Bride and Bridesmaid roses. Plants were used all around the hall. The number seated was five hundred. Ellison & Tesson furnished the decorations.

The fall bulb trade has commenced and estimates are being called for in regard to the laying out and planting of beds more freely than at the same time last season. R. F. T.

Washington.

BUSINESS SHOWS SIGNS OF REVIVAL.—DEALERS ARE DECORATING.—FLOWERS AT A BANQUET.

Business prospects for the coming season look bright for this city and nearly all the growers have their stock in shape for the fall and winter. The store men are renovating their places of business, and all seem hopeful of a prosperous season. The annual fall openings of the dry goods and furnishing stores, add considerable toward making the florists active. At one such event this week, over 300 plants were used.

A notable event of the week was the reception and banquet tendered the Grand Chapter of the Order of the Eastern Star, at the National Rifles Armory, which was transformed into a floral bower for the occasion. The decoration was the work of A. Gude & Bro.

Wm. R. Smith is on his farm at Cameronia, Montgomery Co., Md. P.

Cincinnati.

PLANTING OF HOUSES IS COMPLETED.—BUSINESS EXCELS THE RECORD OF A YEAR AGO.—SPECIAL MEETING OF THE FLORISTS' SOCIETY.

Housing carnations and violets is about completed and we may look for first-class stock soon. Business is fair for the season and shows some improvements over the same time last year. Prices of flowers remain about the same as last week.

Samuel Morehead, of College Hill, has opened a flower store at Main and Canal streets.

The Board of Directors of the Cincinnati Florists' Society held a special meeting at R. Witterstaetter's September 28 to revise and map out schedules for our monthly shows for the ensuing year. The meeting was called to order by President Witterstaetter. After examining the greenhouse stock and the place in general, which is, as usual, in excellent condition, the boys were invited by their host to an elegant spread. A merry good time followed which will be long remembered with pleasure. H. SCHWARZ.

Rochester, N. Y.

Everybody was quite busy during the past week, but stock was not very scarce, excepting carnations. Some good asters are still in the market. The Japanese anemones are very plentiful, and the whites are used largely in designs at present. A few violets are seen here and there; the color is good enough, but in size they are hardly up to the average. Local growers are not in with their chrysanthemums as yet. Home grown roses are not any too plentiful; several growers are beginning to cut in small quantities, but the stems are rather weak, though there is not much reason to complain of the size of flowers. Some lots show signs of mildew, not very badly but just enough to impair their value; it is not safe to let the houses go without a little fire heat in such damp and cloudy weather as we have had here for the last two weeks. We have had one or two slight frosts, but not enough to hurt hardy outdoor stock.

J. B. K.

Marquette, Mich.

A visitor to this famous resort for hay fever sufferers finds business picking up and the outlook promising for a good fall trade. L. H. Stafford has overhauled all his greenhouses and everything is in fine condition. Two of his carnation houses have been planted in solid beds, the bench system being retained in the other. His plants are remarkably healthy.

I noticed a fine batch of that old favorite, Stevia serrata, that had been grown in 5-inch pots plunged in the field. They are beautifully symmetrical plants. The rose houses show beds which look fairly black with the strong young growth so dear to the hearts of all good rose growers. Of chrysanthemums Mr. Stafford has a fine lot. He has not gone into specimen plants. His idea is that it pays best to grow for the many rather than the few. C.

Providence, R. I.

The September exhibition of the Rhode Island Horticultural Society was held on September 21. It was primarily a display of dahlias, contributed mainly by H. W. Tarbox, Sam W. Lewis, H. F. Burt and others. Robert Laurie sent from Newport quite an extensive contribution of greenhouse and garden flowers in variety, and many local exhibitors were represented by displays of considerable extent. The notorious palm swindler made his appearance in Providence on September 20 and victimized John M. Sullivan to the extent of about $40. Afterward a portion of the plants were recovered, but the very slippery stranger has not been found.

THE AMERICAN FLORIST

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THEY say our English daffodil visitor is spreading the yellow fever.

COAL is usually cheaper at this time of year than during winter and early spring.

MAYOR MOORES, of Omaha, telephone No. 55, has been removed from office by the supreme court.

EARLY chrysanthemums may be followed by violets, carnations, bulbs in pots or boxes, bedding stock or pot plants in variety.

IN response to a recent inquiry, J. H. Mears, of Enosburg Falls, Vt., sends blooms of Mme. Salleroi geranium. The flowers are of a pale pink shade and, as Mr. Mears remarks, very rudimentary.

THE *Gar leners' Magazine* states that Mr. Eckford has a natural hybrid between the garden pea and the sweet pea, two distinct species. It is not expected to prove valuable commercially.

JOHN F. RUPP, the primula man of Shiremanstown, Pa., sends us samples of a zinnia in which the central florets are light green and those of the external circles reddish. It is interesting, but not attractive. We do not remember to have seen anything of the kind before.

WE received last week in excellent condition a large box of handsome dahlias from W. W. Wilmore, the veteran grower of Denver, Col. It was evident from the samples that the soil and atmosphere of Denver suit the dahlia to a nicety. Mr. Wilmore is favorably known throughout the country as a specialist in the culture of this plant, which appears to be steadily gaining in popularity every year. All the varieties received from Mr. Wilmore were good, including Curio, bronze; Mrs. W. J. Bryan, lavender; E. A. Tunnell, variegated red and white; and John Elitch, deep red. The best of the assortment, however, was a large flower of the cactus type named Prince of India, of a rich crimson shade.

Catalogues and Cut Flower Price Lists Received.

Edward S. Schmid, Washington, D. C., aquarium requisites; H. F. Littlefield, Worcester, Mass., plant supports; Cleary & Co., New York, N. Y., sale; The Morris Floral Company, Morris, Ill., plants; Pinehurst Nurseries, Pinehurst N. C., plants and seeds; Fred'k W. Kelsey, New York, N. Y., trees and shrubs; The Dingee & Conard Co., West Grove, Pa., bulbs and plants; Cherry Hill Nurseries, West Newbury, Mass., pæonies; Bassett & Washburn, Chicago, Ill., cut flowers; Kennicott Bros. Company, Chicago, Ill., cut flowers; S. S. Pennock, Philadelphia, Pa., cut flowers; W. A. McFadden, Cincinnati, O., cut flowers.

Greenhouse Building.

Lawrence, Mass.—Lawrence Davenport, one commercial house.

East Jordan, Mich.—Porter & Kneale, one greenhouse.

Newton, Mass.—Geo. F. Stone, one greenhouse.

Louisville, Ky.—Lake View greenhouses, one house 25x100, one house 20x50.

Williams Bay, Wis—F. T. Manahan, conservatory 12x38.

Dalton, Mass.—Byron Weston, conservatory 23x25.

No. Easton, Mass.—John McFarland, one greenhouse.

Woodlawn, N. Y.—William Nilsson, commercial house 11x45.

Perkasie, Pa.—Benjamin Hedrick, one commercial house.

Hail Notes.

The Florists' Hail Association has recently paid Wm. Krumm & Sons, of St. Joseph, Mo., for over 5000 square feet of glass broken by hail on September 5.

Geo. M. Kellogg, of Pleasant Hill, sustained a slight loss by hail on September 15.

The New York State Weather Bureau reports extensive damage by several violent hail storms in northern and western New York this summer.

The Pitcher & Manda Estate.

John N. May has concluded his labors as receiver for the insolvent firm of Pitcher & Manda by a third and final dividend to creditors of 6 46-100 per cent, which makes the realizations of creditors 66 46-100 per cent of their claims. Mr. May found liabilities of $67,560.10, and succeeded in realizing $133,932.61 upon the assets at a cost of $89,029.11, leaving $44,903 50 for division against the liabilities. The creditors find every reason to congratulate themselves upon the success of Mr. May's management of the estate.

Importers' Troubles.

The gathering of importers at the appraiser's office in New York, noted in the last issue of the AMERICAN FLORIST, was certainly a most interesting and remarkable one. The lesson it seems to teach is that there should be room for some concerted and united action in the future on the part of those whose business it is to import plants and bulbs. To determine the proper market value in each individual importation—of Dutch stock even more than of French—would be an impossibility even for a man with a lifetime experience in the trade, and the fact that any one respectable house has been able to buy at low rates as compared with the invoices of other houses should have some weight as indicating what true market conditions are.

The claim of our appraisers that all dealers should pay duty on the same valuation and their method of getting at this by advancing prices of goods to a uniform standard can hardly hold good in the face of laws reading that every importer must pay his duties on the cost of goods, no matter what the market may be, and there will always be dealers who, in accordance with their purchasing power, will pay duties on higher values. What should be a proper market value might therefore be a subject to be taken in hand by the trade in advance of an expected crop, and very likely importers could then agree on a schedule of figures satisfactory to them and to the United States government without forcing the representatives of the latter to make changes in valuations unpleasant alike to both parties.

The matter of detention of perishable goods in the examiners' hands may, we are assured, be easily adjusted and the danger of loss reduced to a minimum if the importer will make prompt request from the collector of the port for wharf examination of his goods, agreeing to furnish the necessary labor required in the operation.

Coming Exhibitions.

[*Secretaries are requested to supply any omissions from this list.*]

BOSTON, Nov. 8-11. Chrysanthemum show, Massachusetts Hort. Society, Robert Manning, Sec'y, Horticultural Hall, Tremont St.

BUFFALO, N. Y., Nov. 9-11.—Chrysanthemum show, Buffalo Florists' Club. Wm. Legg, Sec'y, 1440 Delaware Ave.

CHICAGO, Nov. 8-12. Chrysanthemum show, Hort. Society of Chicago. Willis N. Rudd, Ass't Sec'y, Room 202, 185 Dearborn St.

ELMIRA, N. Y., Nov. 1-2. Chrysanthemum show, Elmira Hort. Society. R. R. Stockdale, Sec'y.

GERMANTOWN, PA., Nov. 7. Autumn exhibition. Germantown Hort. Society.

HARTFORD, CONN., Nov. 8-10. Chrysanthemum show, Connecticut Hort. Society. C. M. Rodgers, Sec'y, Beacon St., Hartford.

INDIANAPOLIS, Nov. 8-12. Chrysanthemum show, State Florists' Association of Indiana. R. A. McKeand, Sec'y, Garfield Park, Indianapolis, Ind.

MORRISTOWN, N. J., Nov. 1-2. Annual Exhibition, Morris County Gardeners' and Florists' Society. C. H. Atkins, Sec'y, Madison, N. J.

NEW BEDFORD, MASS., Nov. 3-5. Annual exhibition New Bedford Gardeners' and Florists' Club. Peter Murray, Sec'y, Box 104 Fairhaven, Mass.

NEW YORK, SEPT. 26-OCT 8. Sixty-seventh fair, American Institute. Dr. F. M. Hexamer, 52 Lafayette Place, Chairman Committee on Agriculture and Horticulture.

NEW YORK, SEPT. 26-OCT. 1. Annual Exhibition American Dahlia Society, auspices of American Institute.

PHILADELPHIA, OCT. 18. Chrysanthemum show, contest for the C. S. A. cup, auspices of Pennsylvania Hort. Society. David Rust, Sec'y, Horticultural Hall, Broad St. below Locust.

PHILADELPHIA, Nov. 8-12. Annual exhibition, Pennsylvania Hort. Society, David Rust, Sec'y, Horticultural Hall, Broad St. below Locust.

POUGHKEEPSIE, N. Y., Nov. 2-4. Chrysanthemum show, Duchess County Hort. Society. Arthur A. Loughren, Sec'y.

PROVIDENCE, R. I., Nov. 9-11. Chrysanthemum show, Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St., room 23.

ST. LOUIS, NOV. 14-18. Chrysanthemum show, St. Louis Florists' Club. Emil Schray, Sec'y, 4101 Pennsylvania Ave.

TORONTO, Nov. 9-12. Chrysanthemum show, Toronto Gardeners' and Florists' Association. E. H. Carter, Sec'y, Riverside Park, Toronto.

WACO, TEXAS, Nov. 10-12. Chrysanthemum show, Texas State Floral Society. Mrs. Louis Crow, Sec'y, Waco, Texas.

WORCESTER, MASS., Nov. 8-9. Chrysanthemum show, Worcester County Hort. Society. Adin A. Hixon, Sec'y, Horticultural Hall, 18 Front St.

Florists' Fire Insurance.

As it is now time to begin fall firing, it will be interesting to note the names of some of those who are members of the Florists' Mutual Fire Insurance Association. Among others are the Junction City Floral Co., Junction City, Kan., Chas. M. & Mary L. Farmer, Anderson, Ind., C. S. Battin, S. Charleston, Ohio, Hermann Staeps, Elm Grove, Wis., John Westcott, Philadelphia, Chas. D. Ball, Philadelphia, W. H. Culp & Co., Wichita, Kan., McCrea & Cole, Battle Creek, Mich., H. D. Caldwell & Co., Paris, Ill., The Storrs & Harrison Co., Painesville, O., F. J. Geist, Melrose, Mass., I. L. Pillsbury, Galesburg, Ill., Ella Grant Wilson, Cleveland, O., The Kemble Floral Co., Oskaloosa, Iowa, Frank Shaffer, Pana, Ill., M. A. Patten, Tewksbury, Mass., Stuart & Haugh, Anderson, Ind., A. M. Larder, Fredonia, N. Y., Carl Rauth, Springfield, Ill., F. R. Matthison, Waltham, Mass., Nick Zweifel, Milwaukee,

Wis., W. J. & M. S. Vesey, Fort Wayne, Ind., St. Louis Cut Flower Co., St. Louis, Mo., G. Van Bochove & Bro., Kalamazoo, Mich., H. B. Weaver & Bro., Wheatland Mills, Pa., Capt. J. J. Phelps, Hackensack, N. J., Jos. H. Cunningham, Delaware, O., M. Dummett & Son., Mt. Vernon, N. Y., J. G. & A. Esler, Saddle River, N. J., W. S. Nichol, Barrington Center, R. I., J. C. Vaughan, Chicago, Wm. Scott, Buffalo, N. Y., Jackson & Perkins Co., Newark, N. Y., Maplewood Cut Flower Co., Pleasant Hill, Mo., Adam Graham, Cleveland, O., E. A. Seidewitz, Annapolis, Md., H. W. Bond, Fort Wayne, Ind., Fred Busch, Minneapolis, Minn., Fred Dorner, La Fayette, Ind., Grohmann Bros., Saginaw, Mich., A. J. Pennock, Lansdowne, Pa., A. Gude & Bro., Washington, D. C., Wm. Bester, Hagerstown, Md., Th. Van der Meulen, Dunkirk, N. Y., Henry Michel, Marion, Ind., Dr. J. A. Mulford, Lebanon, O., James Horan, Bridgeport, Conn., Wm. Mann, Louisville, Ky., Chas. E. Heite, Kansas City, Mo., Geo. M. Naumann, Cleveland, O., Sonnenschmidt & Junge, Indianapolis, Ind., Jas. Bancroft, Cedar Falls, Iowa, James Frost, Greenville, O., H. W. Reiman, Indianapolis, Ind., E. H. Marshall, Sabetha, Kan., W. J. Miller, Pontiac, Ill., H. L. Phelps, Springfield, Ill., W. C. Stroh, Attica, N. Y., M. H. Wetherbee, Charles City, Iowa, A. S. Horn, Fremont, O., Mrs. O. G. McCormick, Logansport, Ind., Herman Niesner, Johnstown, Pa., The F. R. Williams Co , Cleveland, O., The Redfern Co., Whitehall, Mich., Carl Neuner, Louisville, Ky., W. C. Sabransky, Kenton, O., Mrs. F. E. Blair, Big Rapids, Mich., H. B. Greene, Lowell, Mass., J. O. Zimmerman, Pueblo, Colo.

Elmira, N. Y.

The first annual chrysanthemum exhibition of the Elmira Horticultural Society will be held November 1 and 2. The managers of the society succeeded in securing splendid exhibits of roses at the June show and of sweet peas in August, and the prospects are that the display at the coming show will be large and of exceptional quality. The leading feature will be the contest for the bicycle offered for the best new chrysanthemum, either seedling or sport, of any color, to be judged under the rules of the American Chrysanthemum Society, which require that it shall have been tested two years or more and that six blooms be exhibited. The winner is to be named the Eclipse of '98 and is to be disseminated under that name. Growers from all parts of the country are invited to compete. In addition to the commercial growers in this section there are several private gardeners who grow fine chrysanthemums. J. E. Anthony, gardener for Gen. Magee, is noted for the grand ones he produces. John Rudy, of J. S. Fassett's place, Strathmont, has in addition to a fine general stock a very promising lot of Japan seedlings. H.

Lexington, Ky.

The Lake View Greenhouses, S. D. Yarrington, proprietor, August Becker, manager, is putting up two new houses one 25x100, the other 20x50, making in all 17,000 square feet of glass. A new steam boiler is also being put in, Mr. Becker doing all the work himself. One house 14x18 of violets, planted in July from out of door grown stock, is in fine shape and the Princess of Wales is giving us some flowers. Roses and carnations are looking very well and so are chrysanthemums. The Lake View is growing in popularity and business is picking up nicely.

HEINRICH HANDRICH.

GLASTONBURY, CONN.—J. R. Morgan & Son are completing a range of greenhouses which will give them 4500 feet of glass.

HARTFORD, CONN.—The fall exhibition of the Connecticut Horticultural Society was held in Good Will hall on September 20 and 21. The display while good in quality was not equal in extent to some of those of former years.

COLUMBUS, O., Sept. 27.—The establishment of J. B. Romans, consisting of plants, greenhouse stock, as well as household goods, was sold at auction this week at very low prices to satisfy the demands of creditors, thus closing out a business which at one time was a leading one in the cut flower trade here. D.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant adve. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By experienced rose and carnation grower, single. Good references. J B M, care American Florist.

SITUATION WANTED—By an experienced single man in the florist or gardening business; west preferred. References. FLORIST, Butte, Mont.

SITUATION WANTED—By experienced florist and designer; foreman; specialties, roses, carnations, 'muma, violets; best refs. G, P.O. Box 547, Alliance O.

SITUATION WANTED—By experienced florist and gardener, in private or commercial place. First-class references; married, small family. Address F P, 55 Oakland St., Cleveland, O.

SITUATION WANTED—By experienced florist, German, single, 35, with best references; commercial or private, the latter preferred. Address F. SCHULTZ, care Vaughan's Seed Store, Chicago.

SITUATION WANTED—By practical, all-round florist as foreman; experience in propagating and growing roses, carnations, violets and pot plants; sober and reliable Best refs. K W, care Am. Florist.

SITUATION WANTED—As head gardener and florist on gentleman's private place or institution, by middle-aged, married man; no incumbrance. Very best recommendations. B H R, care Am. Florist.

SITUATION WANTED—By florist and experienced plantsman of executive ability in all the requisites of commercial and horticultural concern inside and outside; general propagation; specialty of the nursery, etc. References. PRACTICAL, care Am. Florist.

SITUATION WANTED—Floral artist of eight years' experience in cut flower business, and best of reference; competent to do anything in cut flower business. Address L. R. BOHANNON, 920 Lanine St., Sedalia, Mo.

SITUATION WANTED—By first-class grower of roses, 'mums, carnations, etc.; German, 35 years old, married, no children. Position as working foreman on good commercial place. Sober, industrious, not afraid of work; 20 years' experience in Europe and America. West preferred. P G, care Am. Florist.

SITUATION WANTED—Experienced grafter on Manetti stock, and rose and carnation grower and propagator. Very successful in orchids, palms, ferns, cycadeni and aroideal. Should like position in commercial place or to take charge of extensive private grounds. Fine references. A B 101, care American Florist.

SITUATION WANTED—By single man to take care of gentleman's place or public institution. Am a thorough gardener and florist. Can serve in the capacity of coachman. Also superintend farm work and the making of first-class butter. Have served apprenticeship in two different European countries and 20 years in U. S. Will go to any part of the country. Correspondence solicited with parties wanting good, reliable man. Address A P A, care American Florist, Chicago.

WANTED—First-class grower to take charge of section of rose houses. WIETOR BROS., 51 Wabash Ave., Chicago.

WANTED—Young man for store, one who has experience first-class store, with best of reference. SMITH & FETTERS, 148 Euclid Ave., Cleveland, O.

WANTED—At once, experienced man for general greenhouse work. Permanent place. Address ALMA S. PATTERSON, Fort Scott, Kans.

WANTED—Experienced man for palms, ferns and general greenhouse work. Steady engagement. JOHN BLANCK, 160 43rd St., Chicago.

WANTED—To exchange wire floral designs for 2½-inch pot ferns, or larger sizes of the sword ferns. F. WALKER & CO., Louisville, Ky.

WANTED—Young (single) man well up in general greenhouse work. Wages $9 per week and room; none but a sober, bustling man need apply. W. W. COLES, Kokomo, Ind.

WANTED—Young man as assistant in retail florist store; must have a general knowledge of the florist business. Address with references. H. F. HALLE, 548 W. Madison St., Chicago.

WANTED—An experienced florist, gardener and fruit culturist; wages $20 per month and board. If not competent, sober and industrious, don't apply. State refs. CHAS. WHITTENBAUGH, Shamokin, Pa.

WANTED—Experienced night man, steam boiler; one used to greenhouse work and strictly temperate. Steady employment to good man; no other wanted. Give references and state wages. J. M. SMELY, Aurora, Ill.

WANTED—At once or Oct 15, good reliable man to grow roses, carnations and general stock. German or Swede preferred; good wages; must be sober. Address C. F. SPAN, Kensington Greenhouses, Salt Lake City, Utah.

WANTED AT ONCE—A good all-round man; must understand growing palms, ferns and pot plants. Only sober, reliable man need apply; state wages. Address L. G. PFUNDER, 427 Washington St., Portland, Ore.

WANTED—A man that thoroughly understands growing tea roses, and is capable of taking charge of 100,000 feet of glass; a number one man with the best of references is wanted. Apply to BASSETT & WASHBURN Hinsdale, Ill.

WANTED—Experienced rose grower, as foreman in commercial place; must be single and have references in regard to ability and character. State experience and wages expected. Good place for the right man. R T, care American Florist.

WANTED—At once, a single man as working foreman. Must understand growing carnations, violets, 'mums and general stock. Wages, $25 per month and board. Must be sober and honest. CHAS. K. SWENSON, 210 Asylum St., Hartford, Conn.

FOR SALE—Four greenhouses, nearly new. Good retail stand. A. CLAUS, Springfield, Ill.

FOR SALE CHEAP—Three greenhouses, four lots and stock in the best and liveliest city in America, unincumbered. Apply 558 South 1st St., Cripple Creek, Colo.

FOR SALE OR RENT—Good retail stand, 5000 feet of glass (new), has never paid less than $1300 per year net. Must buy stock. Reason for quitting, failing health. Address ILL, care Am. Florist.

FOR SALE—Established florist's store on West Madison street, near Kedzie avenue; reason, cannot give personal attention. Rent, only $22.50 per month, including living rooms. C J, care Am. Florist.

FOR RENT OR SALE—Greenhouse property, Potsdam, N. Y., 4000 ft. glass, land, barn; residence if required; established retail business. Good chance for competent man. F. W. BEST, M. D., Port Jervis, N. Y.

FOR SALE—One good second-hand 25-horsepower upright boiler, 5½ ft. high and 4 ft. wide; all tubes new 3 years ago. Also one 4-horsepower upright boiler. HARRY J. MCFARLAND, Box 14, Marshallton, Chester Co., Pa.

TO LEASE OR FOR SALE.

In a live junction, 35 miles from Boston. One of the best locations in Massachusetts. Four violet houses 11x85 feet, well stocked; one carnation, rose and palm house 100 feet long, heated by steam and hot water; 100 hotbed sash; about two acres of land. Dwelling house if desired. Address BOSTON, care American Florist.

FOR SALE.

Greenhouse business in Illinois, city of 15,000 population, 120 miles from Chicago; practically no competition. Reason for selling, poor health. Address.

W H G. care American Florist.

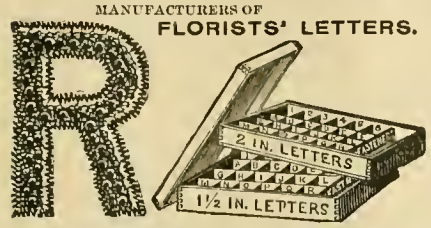
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Commercial greenhouse establishment, well known and long established, doing an increasing and prosperous wholesale business, chiefly consisting of six greenhouses (about 15,000 square feet of glass), all stocked and in good condition, and situated 50 miles (90 minutes) from Boston in a town of about 6000 population. Five minutes to business center. Accompanying the foregoing is about 50 acres of finest grass and tillage land, large barn, carriage house, repair shop, hen house and 14 room, hot water heated dwelling house. All beautifully situated. Conditions favorable for market gardening, stock or general farming. A fine estate. A rare chance for someone. Owner wishes to retire from business. Price reduced to $18,000; easy terms. Address Y Z, care American Florist, Chicago.

Do not hide your light under a bushel. Tell the people what you have for sale.

Boston Florist Letter Co.

MANUFACTURERS OF
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.
Script Letters $4. Fastener with each letter or word.
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

Mention the American Florist.

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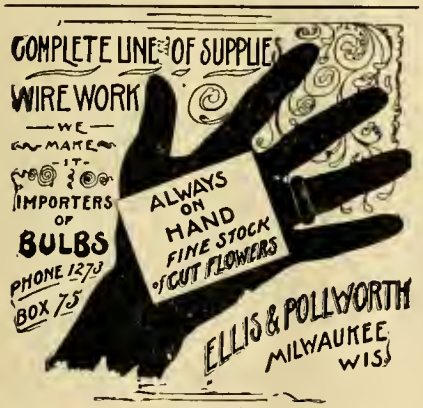
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Oldest, largest and most reliable dealer in the U. S. Hinsdale, Mass.



H. BAYERSDORFER & CO.

Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

New Catalogue of all FLORISTS' SUPPLIES on application. For the trade only.

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50, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

M. Rice & Co.

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Manufacturers of

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2 AND 4 DOMINICK STREET,
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Pittsburg Cut Flower Co. Limited

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...WHOLESALE CUT FLOWERS...

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335 EAST 21ST ST. NEW YORK CITY.

Wholesale Flower Markets

CINCINNATI, Sept. 29.

Roses, Beauties	10.00@15.00
" Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 4.00
" Perles	2.00
Carnations	.75@1.00
Tuberoses	3.00
Lily of the valley	4.00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	40.00
Asters	.75@ 1.00
Common ferns	.15

ST. LOUIS, Sept. 29.

Roses, Beauties	3.00@15.00
" Meteors	2.00@ 5.00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	2.00@ 3.00
" Kaiserins	2.00@ 5.00
Carnations	1.00@ 2.00
Asters	1.00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Tuberose spikes, single and double	4.00

MILWAUKEE, Sept. 29.

Roses, Beauties, per dozen	.50@2.50
" Brides, Bridesmaids	2.00@ 4.00
" Perles	2.00@ 4.00
" Meteors	2.00@ 5.00
" Kaiserins	2.00@ 5.00
Carnations	.75@ 1.25
Gladioli	2.00@ 3.00
Smilax	12.50@15.00
Adiantum	.50@ 1.00
Common ferns	.20
Asparagus	50.00

BUFFALO, Sept 29.

Roses, Beauties	5.00@20.00
" Brides, Bridesmaids	2.00@ 6.00
" Meteors	2.00@ 6.00
" Perles, Niphetos	1.00@ 3.00
" Kaiserins	2.00@ 6.00
Carnations, ordinary	.50@ 1.00
" fancies	1.00@ 2.00
Lily of the valley	4.00@ 5.00
Smilax	10.00@15.00
Album roseum lilies	5.00@ 6.00
Asters	.50@ 1.00
Adiantum	1.00@ 1.25
Asparagus	.50.00@75.00
Gladioli	1.50@ 3.00
Hardy Ferns, per M, $1.50	
Tuberoses	2.50@ 3.00

LOUISVILLE, Sept. 29.

Roses, Beauties, per dozen	.75@2.00
" Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" Kaiserins	2.00@ 4.00
" Perles	1.50@ 2.00
Carnations, fancy	1.25@ 1.50
" common	1.00
Violets	.50@ .75
Smilax, per dozen	1.25@ 2.00
Adiantum	.75@ 1.00
Asparagus, per string	.50
Dagger ferns, per M, $1.00	
Fancy " " 1.50	
Asters	1.00@ 1.25

Hardy Cut Ferns!

SPHAGNUM MOSS, 40c BBL.

Bouquet Green, Galax Leaves, Laurel Roping, &c. &c. Everything in green line always in stock at

H. E. HARTFORD'S, 18 Chapman Place, BOSTON.

Mention American Florist.

Announcement!

THE PITTSBURG FLORISTS' EXCHANGE

will open on OCTOBER 1st with a full line of

Cut Flowers and Florists' Supplies.

Consignments of First-Class Stock solicited.....

The Pittsburg Florists' Exchange,
444 6TH AVENUE.
PITTSBURG, PA.

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

WM. F. KASTING WHOLESALE COMMISSION FLORIST....
495 Washington St., Buffalo, N. Y.
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A Catalogue For You

Low prices on first-class Fall goods. Address

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404-405-40 -410-412 E 34th St., New York City.

BRILLIANT GREEN AND BRONZE

GALAX LEAVES,

For Decorating and all Florists' Designs.

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ILLINOIS CUT FLOWER CO.

J. B. DEAMUD
51-53 WABASH AVE.
CHICAGO
If we do not list what you want, write us.

PRICE LIST

	Per 100
Brides, Bridesma'ds, Meteors	$2 to $3
Perles	2
Kaiserin	3 to 5
Carnations	75c to 1
Carnations, fancy	2
Valley	4 to 5
Tuberose Spikes	4 to 5
Asparagus, per string, 40c to 50c	
Smilax	10 to 12 50
Common Ferns, per 1000, 1.50	20c
Adiantums	50c

'MUMS NEXT WEEK.

V. M. & W.
Wholesale Florists
47 Wabash Avenue, CHICAGO.

E. C. AMLING
Wholesale Cut Flowers
51 Wabash Avenue,
W. S. HEFFRON, Mgr. CHICAGO.

Wholesale Flower Markets

CHICAGO, Sept. 30.

Roses, Beauties, extra long, per doz.	3 00
" " 24 inch " "	2.00
" " 20 " " "	1.50
" " 15 " " "	1.00
" " 10 " " "	.75
" Brides	2 00@ 4 00
" Kaiserins	2.00@ 4 00
" Bridesmaids	1 50@ 4.00
" Perles	1.50@ 3.00
" Meteors	2.00@ 4 00
Carnations	1.00@ 2 50
Asters	1.50@ 2 50
Lily of the valley	4.00
Adiantum	.50@ 1 00
Common ferns	.20
Smilax	10.00@12 00
Asparagus	30.00@50.00

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Roses, Beauties	5.00@20.00
" Bridesmaids, Brides	1.00@ 3.00
" Morgans Perles	1.00
" Meteors, Kaiserins	1.00@ 4.00
Carnations	50@ 1.25
Lily of the valley	1.00@ 2.00
Smilax	10.00@12.00
Asparagus	40.00@50.00
Cattleyas	40.00@50.00
Asters	.05@ 1.50
Gladioli	.50
Adiantum	.50@ .75

BOSTON, Sept. 28.

Roses Beauties	5.00@25.00
" Kaiserins	2.00@ 6.00
" Brides, Bridesmaids, Meteors	1.00@ 6.00
Carnations	.75@ 1.50
Lily of the valley	1.00@ 3.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00
Asters	.25@ 1.00
Tuberoses	.50

PHILADELPHIA, Sept. 28.

Roses, Teas	2.00@ 4.00
" " extra	4.00@ 6.00
" Beauties, extra	12.50@16.00
" " firsts	6.10@ 8.00
" " seconds	4.00@ 6.00
Carnations	50@ 1.00
Lily of the valley	3.00@ 4.00
Asparagus strings	35.00@50.00
" Sprengeri per bunch	.50@1.00
Smilax	12.00@15.00
Asters	.50@ .75
Violets, single, per bunch of 50 to 75	.08@ .10

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AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

C. B. COE, representing D. M. Ferry & Co., was in Chicago last week.

LARGE shipments of potatoes are being made to Cuba from the eastern part of Long Island.

T. ROCHEFORT, of London, England, is reported to use $60,000 worth of lily of valley pips in a season.

H. T. HOPKINS, representing the J. H. Allan Seed Co., will be taking in their western crops the coming week.

SAN FRANCISCO.—The Cox Seed and Plant Company will change its name to the Cox Seed Company. Mr. Thos. Cox is making an eastern trip.

RECENT advices from Washington, D. C., report that A. C. Nellis was the lowest bidder for the government seed contract and the Braslan Seed Growers' Co. the next higher.

THE death is announced of Mr. Graham, of Graham, Emlyn & Passmore, who was in the seed trade in Philadelphia a good many years ago, but later drifted into lawn mower making. Mr. Graham was the maker of the famous Philadelphia lawn mower.

THE new store of S. Y. Haines & Co., in Minneapolis, 105 Boston, is very centrally located on the main floor, is seventy-five feet deep and is now being fitted up with the best fixtures and facilities for rapid handling of the mail trade; they will handle flower seeds exclusively.

BINGHAMPTON, N. Y.—Plans have been completed for the erection of large seed warehouses and offices for the E. W. Conklin & Son establishment. The main building will be 74x342 and a smaller one 36x50, besides offices and power houses. They will be ready for occupancy about January 1.

MRS. DAVID BURPEE, whose serious illness was noted in our last issue, died on September 25, at the home of her son, W. Atlee Burpee, at Fordhook Farm, Pa. Mrs. Burpee was greatly beloved by the rank and file of her son's employes, and their loss is regarded as second only to that of Mr. Burpee, who has our fullest sympathy in his bereavement.

COLUMBUS, O.—The demise of W. D. Livingston has resulted in the reorganization of the house of A. W. Livingston's Sons and the incorporation of the Livingston Seed Company with a capital stock of $40,000 principally held by the incorporators, Robert G. Livingston, Fayette G. Johnson, Grace S. Livingston, Ebenezer Livingston and Robert L. Rankin. The corporation will offer a portion of its stock to those of its employes who have been long in its service, a policy which recent progressive business methods has proven to be wise and helpful to all concerned. D.

Lima Bean Association in California.

On Monday, September 12, the California Lima Bean Association will pay to the lima bean growers of this county and a few from Santa Barbara county $25,290 95. Last Saturday the board of directors met and declared a final dividend of 29 cents per cental. This was the rate on 87,210 17 centals. The affairs of the association will then be closed up.

This association was organized in January, 1897, and handled the largest share of the crop of 1896. The business done by this association has been very large. The crop of that season was enormous, and the association controlled over seven hundred carloads. The total sales of the association, 203,118 bags of lima beans, passed through their hands, of which 167,819 bags were pooled, and 95 269 bags were purchased.

There are 110 members in the association. The largest part of the beans were sold last season. In August, 1897, there was sold and shipped 90,404 centals. The last lot, consisting of 10,351 bags, was recently sold to Porter Bros. & Co., at $2 80 per cental. The bulk of the beans sold at $1.40. Last fall a dividend of $1.15 was declared. Add to this the recent dividend of 29 cents, and the members have received $1.44 net per cental for their beans. The running expenses amounted to about $1200.

It is estimated that the European trade last year absorbed 50,000 bags. A feature of the work of the association last year, was the loaning of money to the members who could not pool their beans without receiving a small loan.—*Los Angeles Times.*

Seed Crops in Germany and Holland.

The condition of European seed crops in several important centers about September 1, is shown as follows:

BRANDENBURG.

Pole and bush beans good; wax beans a total failure, except the white-seeded Flageolet wax, which remained healthy and therefore deserves considerable commendation. Wrinkled peas are a short crop: round peas good. Cucumbers very poor. Cauliflower will yield well if the warm weather continues. Cabbage a medium crop, the seeds plump. Kohlrabi middling. Rutabagas, carrots, radish, celeriac and mangels good. Both beets and parsley were planted only moderately, but they promise a good crop. Lettuce good, but needs more warm weather. Onions promised well, but were blighted and will only yield half a crop.

Flower seeds are generally good to very good. The dwarf asters have suffered, others good. Stocks good on stages, those in the open ground middling. Wallflower, helichrysum, lathyrus and lobelia good. Carnation, Chinese pink, and petunias very good. Mignonette excellent. Phlox Drummondii, dwarf sorts, good, also salpiglossis, scabiosa and marigold. Larkspur and Myosotis alpestris var. poor. Myosotis palustris var. good. Verbenas and pansies excellent.

QUEDLINBURG.

Parsnip very good. Carrots and radish good to very good. Borage, chicory, dill, winter endive, chervil, rutabagas, cress, parsley, sugar beet, mangel, lettuce, sage and sorrel good. Pole, bush and Windsor beans, cabbage, kale, kohlrabi, turnip, spinach and early peas fair. Leek, celeriac, thyme, late peas (wrinkled and sugar) good to middling. Wax bush beans middling to poor. Cucumbers were a failure in the open field; planted between onion rows middling to good. Onions blighted badly shortly before and during the blooming period. The yield will be middling of a few sorts only and poor with most kinds, some fields being an entire failure. Spinach was planted in much smaller acreage and since stocks were pretty well cleaned out and the crop considerably below the average, the demand is at present greater than the supply. The seed was harvested during the dry weather and is therefore very bright.

Sweet peas promised well and some fields are still in good condition. They blighted largely, however, on account of the sudden hot weather and the plants die down too quickly in many fields, giving only half the usual amount of pods. In less porous soils the vines stand better. Cinerarias, calceolarias, primulas and pansies good to very good. Begonias, gloxinias, stocks, carnations, asters, nasturtiums, antirrhinum, balsams, zinnias, lobelia, dianthus (annual), mignonette, as well as other annuals and biennials good to rather good. Late-flowering larkspurs, myosotis and verbenas middling. Phlox hardly middling.

ERFURT.

Cauliflower Dwarf Erfurt promises a good crop. Cabbage and early kohlrabi middling; late kohlrabi good. Carrots for stock promise well. Table carrots, especially the finer kinds, will only yield a middling crop. Onions were grown less extensively than in the preceding year and indicate a moderate crop. Early radish suffered much from the drought and is now pillaged by the birds. Summer and winter radish will yield a middling crop. Head lettuce stand very good; the early sorts can soon be harvested, but the late ones need more warm weather. Cucumbers are backward and need warm weather to give a middling crop. The same holds with regard to pole and bush beans. Mangels promise a very good yield, but the acreage is smaller than in late years. Spinach turned out better than was expected; peas good, especially the early sorts, beets excellent.

Among flower seeds stocks, pot grown, are excellent, wallflowers, carnations and petunias good. Larkspur good to very good. Most sorts of pansies will yield more than a good middling crop. Marigolds and nasturtiums were somewhat late, but will yield a middling crop if the September weather is favorable. Zinnias will do well if the fall weather favors them and most other annuals promise a good crop, including mignonette, which was not troubled with insects this year.

HOLLAND.

The cauliflower crop may turn out a good one if the weather is dry and warm. Cabbage middling; red cabbage a small crop; Savoy cabbage satisfactory. Kale good but little planted. Turnips will give a satisfactory crop, with the exception of some of the finer sorts. Rutabagas are a small to middling crop and little planted. Kohlrabi poor. Mangels and sugar beets good but little planted. Beets and carrots middling. Onions partly blighted. Corn salad extensively sown and a good crop. Spinach was sown largely but set little seed during the cold weather, and only a small crop is expected, especially of the later kinds. Peas satisfactory. Radishes, early, stand well, but are late; summer and winter hardly middling. Celery very poor. Scorzonera below middling. Parsley very good. Chervil satisfactory, but little of it sown. Windsor beans good. Pole and bush beans and cucumbers are very late and will only yield a middling crop if the weather is favorable.—*Moller's Deutche Gartner-Zeitung.*

ATCHISON, KAN.—Oscar Groves, a Roosevelt Rough Rider, is visiting his father, R. J. Groves, the florist here. Prior to his enlistment Mr. Groves was in the business in New Mexico and he intends to resume his position soon.

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You can buy some kinds of Tobacco Stems. Mine are guaranteed absolutely fresh and full strength, and the low price at present is only from lack of room. See my last week's adv. for prices.

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IT is reported that an eastern speculator, representing a big department store, has bought up all the Dutch roses in sight.

THE *Chicago Tribune* has discovered that "the rose has every color, even black, green and blue ones having been recently produced." This is an editorial statement made in discussing that perennial subject, a national flower.

Inferior Grass on Lawns.

ED. AM. FLORIST:—Please find enclosed a sample of inferior grass which is growing on our lawn and crowding out the more desirable kinds. Any information regarding its name and the prevention of its spreading will be gratefully received.
W. J.

The "inferior lawn grass" sent by "W. J." for identification is smooth crab grass, an annual weed which is not uncommon in lawns. This and the common crab grass (Panicum sanguinale), both called summer grasses by many, are pests on lawns and often disfigure the turf to a serious extent. The only remedy suggested is to carefully remove these grasses by pulling them up or hoeing them out of the ground and re-seeding the naked places with blue grass, or other seed desired. At the same time it will be well to fertilize with a liberal application of bone meal or hard wood ashes. By heavily seeding the ground with blue grass or creeping bent, whatever seed may be used, and removing these summer grasses upon their first appearance, and maintaining the land in a good state of fertility, will enable one to secure a clean sod free from weeds. F. LAMSON-SCRIBNER.

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IN THE UNITED STATES. WRITE TO US FOR SPECIAL PRICES.
W. & T. SMITH CO., Geneva, N. Y.
When writing mention the American Florist.

The New WHITE Blackberry
"ICEBERG"
I have 100,000 of them. Write for price.....
F. L. ATKINS, Orange, N. J.

F. & F. NURSERIES SPRINGFIELD, NEW JERSEY.
Wholesale Growers, TREES & PLANTS in Full Assortment. TRADE CATALOGUE FREE.

....AUTUMN 1898....
One Million
Flowering Shrubs; full assortment; all sizes.
Half Million...
Deciduous Trees for street, lawn and avenue planting.
200,000 Vines, Iris, Clematis, Actinidia and other sorts. Correspondence solicited.
THE WM. H. MOON CO.
MORRISVILLE, PA.

FOR FALL '98 AND SPRING '99 DELIVERY
A SPLENDID ASSORTMENT OF
FIELD-GROWN HARDY ROSES
Clematis, Ornamental Shrubs and Trees, Pæonies, Herbaceous Plants, Small Fruits, Fruit Trees.
Special quotations gladly submitted by letter.
Jackson & Perkins Co. Newark, New York.

HARDY SHRUBS
Assorted in 25 Varieties.
My selection $50 per 1000. Descriptive catalogue and price lists for the trade.
SAMUEL C. MOON,
MORRISVILLE, - Bucks Co., PA.

Trees and Shrubs.
We have an immense collection of **Trees, Shrubs, Vines** and **Herbaceous Plants.** Trees of small sizes for setting in nursery rows, or **large stock** for immediate effect. Trees of large sizes, 2 1-2 to 4-inch diameter, in large assortment.
Send for trade catalogue. Prices on large caliper trees given only by letter.
Thomas Meehan & Sons,
Germantown, Philadelphia, Pa.

CANNAS — Rambler Roses
From field for Fall delivery.
Also 30,000 SPIRÆA ANTHONY WATERER.
40,000 LOCAN BERRY TIPS.
The Conard & Jones Co., WEST GROVE, PA.

HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
JACOB W. MANNING,
The Reading Nursery, READING, MASS.
ESTABLISHED 1854.
Mention American Florist.

KENNICOTT BROS. CO.

Wholesale Cut Flowers

Trade at Headquarters. The Greatest House in America.

LONG DISTANCE TELEPHONE EXPRESS 466

AND FLORISTS' SUPPIES,

....Rooms 22 and 23.

88 Wabash Ave., CHICAGO.

PRICE LIST SUBJECT TO CHANGE WITHOUT NOTICE.

P. AND D. AT COST.	Per 100	P. AND D. AT COST.	Per 100	P. AND D. AT COST.	Per 100
Am. Beauties, medium	$5 to $ 6	Perles	$2 to $3	Carnations, our selection	75
Am. Beauties, fancy, fair length	8 to 10	Roses, our selection	2	Adiantum	60 to 1
Am. Beauty, long	12½ to 20	Carnations, extra select	1 to 1½	Asparagus	40 to 50
Meteors	2 to 4	Carnations, white	1 to 1¼	Galax	25
Brides and Maids	2 to 4	Carnations, good average	75 to 1	Common Ferns	20

$1.50 per 1000. 500 at 1000 rates.

THIS YEAR'S CUSTOMERS MUST BE OURS NEXT YEAR.

ASPARAGUS ALWAYS ON HAND.
ALL FLOWERS IN SEASON AT LOWEST MARKET RATES.
STORE OPEN UNTIL 6:30 P. M. WEEK DAYS, UNTIL NOON SUNDAYS AND HOLIDAYS.
WE ALWAYS SHIP EXTRA SELECT OR HIGH GRADE GOODS UNLESS OTHERWISE ORDERED.

The Values we give are our Best Advertisements.....

LOOK FOR OUR PRICE LIST IN THE TRADE PAPERS.

Orchids!

Arrived in fine condition: Cattleya Speciosissima; C. Harrisoniæ and Oncidium Varicosum Rogersii
Cattleya Mendelii expected shortly.

LAGER & HURRELL, SUMMIT, N. J.

500 CHINESE PRIMROSES.

Fine stock, from 3½-inch pots at $5.00 per hundred.

300 FINE BEGONIAS.

From 3 and 3½-inch pots; mixed varieties, at $3.00 per hundred.

WARREN HUCKLEBERRY, North Vernon, Ind.

Asparagus Sprengeri

50 000 Plants in 2½-inch pots, $5 00 per 100. Express: 24 for $1.50 by mail. Specimens for 8-in. pots, $6.00 per 12.

A. BLANC & CO., Philadelphia

FERNS! FERNS!

100,000 Commercial Ferns in the best varieties out of 2-in. pots, grown in cool houses and well-aired. No better stock offered at double the price; $2.50 per 100, $20.00 per 1000, $50.00 for 3000.

E. HIPPARD, - Youngstown, Ohio.

FINE ROSE STOCK. 3-in. strong, healthy. Maids, Brides, $3.50 per 100; Perles, $5.00 per 100. Extra value, sure to please.....

W. H. CULLETT & SONS, Lincoln, Ill.

NEW SEED OF

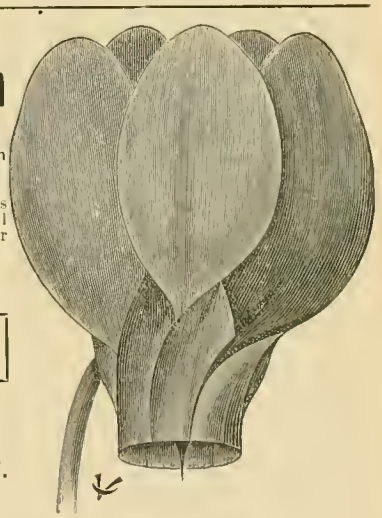
Cyclamen Persicum Giganteum

IN THE FOLLOWING SEPARATE COLORS:

Pure White, Bright Crimson, White with Crimson Eye and Rose (Von Marienthal).

This Cyclamen seed has been grown especially for us by a most conscientious florist and we know that it will give entire satisfaction. Please favor us with your order for seed of this salable plant, at the very low price of.....

$5 00 per 1000 seeds; 100 seeds, 75 cents.



Our Exclus ve List of Seeds of Perennials Sent on Application.

Vaughan's Seed Store

14 BARCLAY STREET, NEW YORK — 84-86 RANDOLPH ST. CHICAGO

400 Primula Obconica
100 Primroses

3-inch. at $2.50 per hundred.

150 SMILAX 2-inch, per hundred, $1.50.

CASH WITH ORDER, PLEASE.

M. J. PIERCE, Adrian, Mich.

Azaleas
Palms
Bay Trees
Araucarias

THE FINEST STOCK IN THE WORLD

SANDER,

BRUGES, BELGIUM.

AGENT:

A. DIMMOCK,

60 Vesey St., NEW YORK.

PALM SEEDS.

The following MUST be ordered NOW direct:

COCOS WEDDELIANA	$3.00 per 1000
" GLAZIOVII	4.00 "
GEONOMA GRACILIS	3.00 "
" IMPERIALIS	4.00 "
ARECA LUTESCENS	3.50 "

Not less than per 5000 delivered at above price; careful packing and freight paid to New York. Cash with order.

ORCHIDS: Large exportation of all best Brazilian Orchids. Apply for quotations. Frequent steamers to New York.

KROMER & THIEME,

Cable address: Kromer, Rio. — Caixa 904 - - - - RIO DE JANEIRO, BRAZIL.

Mention the American Florist.

OUR PASTIMES.

With St. Louis Bowlers.

The September series of games resulted in John Kunz winning the medal for best average and J. J. Beneke that for highest score with the excellent record of 224. The standing of the players is:

Name.	Games Played.	Total.	Ave.	H. S.
Jno. Kunz	12	1888	157	191
C. Sanders	10	1556	155	170
J. J. Beneke	13	1953	150	224
C. A. Kuehn	13	1906	146	171
R. F. Tesson	6	852	143½	191
J. Young	8	1075	134	152
F. J. Fillmore	13	1238	118	153

Chicagoans will Organize.

Following the regular Florists' Club meeting, October 7, the bowling enthusiasts will perfect an organization by electing officers, formulating by-laws, etc. On September 23 J. S. Wilson was so enthused over the game that he continued to play after the rest of the band had become out of breath. Following is the score:

Name.	1st.	2d.	3d.	4th.	5th.	Av.
G. L. Grant	169	131	151	172		177
Robt. Schenk	132	146	150			142
E. F. Winterson	139	115	148	160		140
Jno. Degnan	151	151	123	127		138
J. S. Wilson	160	139	117	118	148	136
C. S. Stewart	136	140	101			125
J. Austin Shaw	82	121	144			115
A. Lange	113	90	121			108
A. Henderson	99	99	126			108

Sports at Buffalo.

There is some talk of organizing a bowling club among the florists of Buffalo and if this is accomplished it will be all off with the other teams at Detroit. St. Louis may as well forward us the trophy now as to wait until she suffers a defeat, for with such bowlers as Scott, Kasting, Eckert, Cowell and others equally proficient but too numerous to mention, it will be useless for others to compete. In fact, for all-around sports I think Buffalo "takes the cake." We can play base ball, run a foot race, shoot, ride a bicycle or play lawn tennis with an abandon equal to our fervor upon the alleys and we've orators who can talk any other men in the business to a standstill. W.

Philadelphia Bowling Notes.

The Saturday night match was a warm affair and this time it was Captain Kilt and his merry men who bit the dust. Captain Charlie's smile was very expansive. The rubber will be next Saturday evening.

Moore is with us once more looking brown as a Seckel pear and with a vim in his arm that threatens to make matchwood of the toughest lignum-vitæ. He has the best rolling style of any of our bowlers.

Speaking of style; how different most men are; and how odd sometimes. Baker is perhaps the oddest although George McLean and Lou Melle are close seconds. Deacon Harris was unique, but he confines himself to shuffleboard of late years. That 240 he once made is too good to be spoiled. W. K. thinks he can now afford to rest on his laurels and withal pose a little just to aggravate some of the cocky ones of the rising generation. W.

Flatbush, N. Y.

John I. Raynor and C. Werner are the latest additions to the Bowling Club's membership. J. V. Phillips was a visitor at the last practice game and will soon add his name to the roll also. Louis Schmutz is on excellent terms with himself since he got a new ball with his initials in ivory on it. He wants everybody to try it and tell him how good it is. On Thursday evening, September 29 the Flatbush Club played a match game with the team representing Brooklyn Council, Royal Arcanum. Tom Brennan is high man up to date in the contest for the handsome cigar holder presented by Le Moult. Mr. Brennan's score is 209 and he considers himself fairly safe. The Flatbush Club voted at its last meeting to send $10 to J. F. Wilcox and enter for the big tournament that is to come off at Detroit next August.

NEW BEDFORD, MASS.—One greenhouse, part of another, together with a barn and boiler house, belonging to C. H. Waite, were destroyed by fire on the morning of September 16; loss about $4,000. The fire is believed to have been of incendiary origin.



The Finest Flowering Novelty of the Century.....

THE EVERBLOOMING

Acalypha Sanderi..

The most extraordinary decorative flowering plant ever introduced. Spikes of blossom

GLOWING CRIMSON SCARLET,

20 to 25 inches long.

From January to December it can be had in bloom, both small as well as large plants produce spikes in great profusion. Fine, well-rooted plants, ready for delivery **October 20th, in 2½-inch pots, $1 00 each, or $9.00 per dozen. Strong plants, in 4-inch pots, $2.00 each, or $15.00 per dozen.**

Orders filled strictly in rotation.

JULIUS ROEHRS, Florist,

RUTHERFORD, N. J.

When writing please mention American Florist.

SPECIAL OFFERS FOR 1898.

Our $50.00 per 1,000 Offer on Deciduous Shrubs.

An assortment of **TWENTY VARIETIES** (fifty each), purchasers' selection from Shrubs quoted in trade list at $4.00 to $7.00 per 100, will be furnished for **$50.00,** F. O. B. when cash accompanies order, otherwise packing charged at cost.

Our $75.00 per 1,000 Offer on Deciduous Shrubs.

An assortment of **TWENTY VARIETIES** (fifty each), purchasers' selection from Shrubs quoted in trade list at $7.00 to $10.00 per 100, will be furnished for **$75.00,** F. O. B. when cash accompanies order, otherwise packing charged at cost.

100,000 **California Privet,** 1 year, 2 years and 3 years.
5,000 **Deutzia Gracilis,** 12 to 15 inches, very fine for florists to force, $6.00 per 100; $50.00 per 1000.
10,000 **Hydrangea Paniculata,** different sizes.

Very Low Prices on Vines.

AMPELOPSIS VEITCHII, 1 year	$35.00 per 1000.
" " 2 years	50.00 per 1000.
ACTINIDIA ARGUTA, or Polygama, 1 year	8.00 per 100.
" " " 2 years	16.00 per 100.
CLEMATIS PANICULATA, from 3-inch pots	35.00 per 1000.
" " from 4 inch pots	60.00 per 1000.
" " open ground, 2 years, very strong	75.00 per 1000.
ENGLISH IVY, 1 year, open ground, strong	50.00 per 1000.
" " 2 years, very long vines	60.00 per 1000.
WICHURAIANA ROSES, 1 year	4.00 per 1000.
" " very strong, 2 years	75.00 per 1000.

DECIDUOUS TREES.

An immense stock of Norway Sugar, Silver and Sycamore Maples, Purple leaved Beech, Cut-leaved Birch, Catalpas, Elms, Lindens, Horsechestnuts, Magnolias, Oaks and Willows.

OF INTEREST TO FLORISTS **EVERGREEN TREES** FOR WINTER DECORATIONS

We are specially prepared to supply florists with Evergreens suitable for winter decorations, either for window boxes, tubs or pots. We recommend the dwarf varieties of Arborvitæs and Retinosporas where a small or medium growth only is desired, and tall-growing Arborvitæs where larger sizes are preferable; either size plants are of perfect form and well furnished to the base. We solicit your orders for these.

PRICE LISTS ON APPLICATION.

THE WM. H. MOON CO.

MORRISVILLE, PA.

Wanted Roses and Beauties. Wanted

GROWERS OF GOOD ROSES—ON CONSIGNMENT.

We Solicit Your Shipments.

WILL GIVE SATISFACTION.



FOR FURTHER PARTICULARS CALL OR ADDRESS.

OUR METHOD:

We make weekly returns. Our statement will show the number of *each* kind of Rose sold and the amount of each day's shipment, so that you can average each kind of Rose and see what they brought you.

Check for sales will accompany statements weekly.

We are in a position to handle strictly high-grade stock at the best possible advantage to the grower. Notwithstanding what your experience has been elsewhere, a trial will convince you of our ability and trustworthiness.

Lynch WHOLESALE FLORIST. 19-21 E. RANDOLPH ST. CHICAGO

HEACOCK'S Offer of PALMS

ALL MEASUREMENTS GIVEN ARE FROM TOP OF POT, AND DON'T YOU FORGET IT.

ARECA LUTESCENS.

3 plants in	3-in. pot,	10 to 12 in.	high		$20.00 per 100.
3 "	4 "	15 to 18	"		25.00 "
3 "	5 "	20 to 22	"		50 00 "
3 "	6 "	22 to 26	"		75.00 "
3 "	8 "	36 to 42	"	$2.00 each	24.00 per doz.
3 "	8 "	42 to 48	"	2.50 "	30.00 "
3 "	10 "	48 to 52	"	5.00 "	
3 "	10 "	52 to 60	"	6.00 "	
3 "	12 "	5 to 6 ft.	high, very bushy		$10.00 each.
A few bushy specimens, 14 in. pots, 7 to 8 ft. high					25.00 "

My stock of this variety is very large, grown cool, clean and very healthy, and cannot fail to give satisfaction. All are grown three plants in a pot.

COCOS WEDDELIANA.

2 x 3-in. pot.	1	plant,	6 to 8	in. high	$10.00 per 100.
3 "	1	"	8 to 10	"	15.00 "
3 "	1	"	12 to 14	"	20.00 "
4 "	1	"	15	"	40.00 "
5 "	1	"	15 to 18	"	50c each, 6 00 per doz.
5 "	3	"	15 to 18	"	50c " 6.00 "
6 "	1	"	28 to 30	"	1.50 each.

My stock of this beautiful variety is very large and in excellent condition.

KENTIA BELMOREANA.

3-in. pots,	4 to 5	leaves,	10 to 12	in.,	$3	per doz.,	$25 per 100
4 "	5 to 6	"	15 to 18	"	6	"	50 "
5 "	5	"	18 to 20	"	12	"	
6 "	6	"	18 to 20	"	15	"	
6 "	6	"	24 to 30	"	18	"	

LATANIA BORBONICA.

2-in.,	3 to 4	leaves,	60c per doz,	$4.00 per 100,	$35.00 per 1000
3 "	4 to 5	"	12 to 15	in. high	10.00 per 100
5 "	5 to 6	"	18	"	$5.00 per doz. 40.00 "



I desire to thank my customers for past favors, and suggest that with increased facilities I am offering a larger **STOCK OF PALMS** and will be able to serve them better than ever before. My trade in the past has exceeded my most sanguine expectations, and with *prosperity smiling on our country* I bespeak a share of their patronage in the future. The palms offered are all home grown, strong and healthy. **The measurements given are from the top of pot to the top of plant, in its natural position.** I am particular to mention this, as some growers include the pot in their measurements, in other words, **include the length of the roots** with the height of the plant.

TERMS: Unknown correspondents will please furnish satisfactory reference or cash with the order. All orders will be shipped by express, unless otherwise ordered.

JOSEPH HEACOCK, Wyncote, Pa.

KENTIAS, 2 CAR LOADS ARECAS, LATANIAS, Oct. 4.

Consisting of a High Class of Ornamental and Decorative Plants suitable for any situation,

GROWN BY

W. K. Harris, Robt. Craig, J. M. Keller, C. Zeller's Sons, A. Schultheis and H. C. Steinhoff.

Which will be offered at AUCTION in lots to suit the purchasers, at

WM. ELLIOTT & SONS', 54 Dey Street, NEW YORK.

WANT TO BUY FERNS?

Mine is a splendid stock of over 200,000 plants in 2¼-inch pots comprizing 10 most popular kinds, $3.50 per 100; $30.00 per 1000. Fine assortment in 3 and 4-inch pots.

Nephrolepis Bostoniensis, from 3 to 8-inch pots. Nephrolepis Cordata Compacta Nana, the coming fern, from 3 to 6-inch pots. . Cocos Weddeliana, large lot, 3-inch pots, fine stock, $12.00 per 100.

VICTOR CARNATIONS, 4000 strong plants from field.....$7.00 per 100
Wm. Scott, strong field plants.. 4.00 per 100

E. W. REDFIELD, Glenside, Pa.

When writing mention American Florist.

ACALYPHA SANDERI,

The Great Decorative Plant Novelty.

Each, $1.00; Dozen, $9.00.

VAUGHAN'S SEED STORE,
14 Barclay Street, NEW YORK.

VAUGHAN'S GREENHOUSES,
WESTERN SPRINGS, ILL.

WRITE TO NEAREST ADDRESS.

THE FAULTLESS AND UNAPPROACHABLE WINTER FLOWERING BEGONIA

Gloire de Lorraine!

From 2½ to 6½-inch pots, 35c to $2.00 each. The largest stock in America.

——ALSO——

Adiantums Cuneatum, Tenerum and Farleyense and a good variety of Mixed Ferns for Ferneries.

——WRITE FOR PRICES——

Wm. W. Edgar WAVERLEY, MASS.

PALMS and FERNS



The Largest Stock of PLANTS IN THE WEST

GEO Wittbold 1708 N. HALSTED ST CHICAGO

CYCLAMEN GIGANTEUM.

Fine bulbs, one inch diameter, with large leaves. The finest giant varieties mixed. Per 100, $5.00.

JOHN F. RUPP, Shiremanstown, Pa.

Tell them where you saw the ad.

Wm. K. Harris and Robert Craig

of PHILADELPHIA,

WILL HAVE THEIR ANNUAL TRADE SALE AT WM. ELLIOTT & SONS, 54 Dey St., New York,

.....ON TUESDAY, OCTOBER 4th. HARRIS AND CRAIG.

EXTRA HEAVY **Clean Stock!**

Kentia Belmoreana

6-in., 5 to 7 leaves.....$15 to $24 per dozen.
5-in., 5 to 6 leaves..... 12 "

Kentia Fosteriana

6-in., 5 to 6 leaves.....$12 to $18 per dozen.
5-in., 4 to 5 leaves..... 9 to 12 "

FIELD GROWN CARNATIONS...

A fine lot will be ready for Sept. delivery.

THE COTTAGE GARDENS
QUEENS, N. Y.

Cabbage and Lettuce Plants

CABBAGE, Jersey Wakefield, Chas. Wakefield, Early Summer, H. Succession and New Early.

LETTUCE, Big Boston, Boston Market, White Loaf, Tennis Ball, Grand Rapids, Curled Simpson.

15 cts. per 100, $1.00 per 1000, $8.50 per 10,000. If by mail, add 10 cts. per 100.

TOMATO LORILLARD, pot grown, 25 cents per dozen; $2.00 per 100.

CAULIFLOWER SNOWBALL, 35 cents per 100.

R. VINCENT, Jr. & SONS, White Marsh, Md.

SPECIAL OFFER!

Pandanus Utilis, 2½-in. pots, beautiful, clean stock, $8.00 per 100. Only a limited number, fine for growing on....

SIEBRECHT & SON
NEW ROCHELLE, N. Y.

Yellow Rambler.

Strong, bushy plants, from 4-inch pots, $12.00 per 100.

Hybrid Wichuraiana Roses.

MANDA'S TRIUMPH, SO. ORANGE PERFECTION, UNIVERSAL FAVORITE, PINK ROAMER.

Strong, 4-inch pot plants, $15 per 100.

Thomas Meehan & Sons,
Germantown, Philadelphia, Pa.

CROTONS

In Excellent Variety.

Send for list of sizes, varieties and prices.

If you feel disposed to try a sample dozen in as many varieties, in 6-in. pots, you may with confidence forward the necessary $9.00 for same by either check or P. O. money order and satisfaction will be guaranteed.

EDWIN LONSDALE,

Money order office, Sta. H Philadelphia.

Chestnut Hill, PHILADELPHIA.

Palms, ROSES and CARNATIONS

LATANIA PALMS—from 4 and 6-inch. Very cheap. Write for prices.

CARNATIONS—McGowan, Scott and Emily Pierson, $4.00 per 100.

ROSE PLANTS—Very strong and healthy. Bride, Bridesmaid, Perle and Meteor, 3 and 4-inch, $3.00 and $5.00 per 100.

BROWN & CANFIELD, Springfeld, Ill.

Fine Ferns!

As usual our stock of Ferns is very large, about 500,000 being now in pots, ready to send out. Our collection has been especially selected for florists' use, discarding all such as are only useful in a botanical collection.

	Inch pots.	Per 100.	Per 1000.
ADIANTUM Bellum	2	$6.00	1000.
" Cuneatum	2	3.00	$25.00
" "	3	6.00	50.00
" "	4	12.00	
" " Variegatum	2	6.00	
" "	3	10.00	
" " " Grandiceps	2	6.00	
" Decorum	2	4.00	35.00
" Pubescens	2	3.00	25.00
" "	3	6.00	50.00
" Tenerum	2	6.00	
" Wiegandi	2	6.00	
ASPLENIUM Belangeri	2	8.00	
CYRTOMIUM Falcatum	2¼	5.00	40.00
" "	3	6.00	
" Fortunei	2	6.00	
LASTREA Aristata Variegata	2	6.00	50.00
" " "	3	8.00	
" Lepidota	2	4.00	35.00
" "	3	6.00	
" Opaca	2¼	5.00	40.00
" "	3	8.00	
LOMARIA Gibba	2	5.00	40.00
" "	3	6.00	
" Ciliata	2	5.00	40.00
" "	3	6.00	
MICROLEPIA Hispida	2	6.00	
NEPHRODIUM Hertipes	2	5.00	40.00
" "	3	6.00	
ONYCHIUM Japonicum	2¼	3.00	25.00

	Inch pots.	Per 100.	Per 1000.
ONYCHIUM Japonicum	3	6.00	
PLATYLOMA falcata	2¼	5.00	40.00
" "	3	8.00	
POLYPODIUM Aureum	2	5.00	40.00
" "	3	8.00	
POLYSTICHUM Coriaceum	2¼	6.00	
" "	3	8.00	
PTERIS Adiantoides	2¼	3.00	25.00
" "	3	6.00	50.00
" Argyrea	2¼	5.00	
" Cretica alba-lineata	2¼	4.00	35.00
" "	3	6.00	
" " Magnifica	2	4.00	35.00
" "	3	6.00	
" Internata	2	4.00	35.00
" Leptophylla	2	4.00	35.00
" Ouvardi	2	4.00	35.00
" "	3	6.00	
" Palmata	2¼	4.00	35.00
" "	3	6.00	
" Serrulata	2¼	3.00	25.00
" "	3	6.00	
" " Cristata	2¼	3.50	30.00
" " "	3	6.00	
" " " nana compacta	2¼	4.00	35.00
" " " "	3	6.00	
" Sieboldi	2¼	4.00	35.00
" Tremula	2¼	4.00	35.00
" "	3	6.00	

DRACAENAS.

GODSEFFIANA. Rich, dark green color, densely marked with irregular dots and spots of a creamy white; new and beautiful. Strong, 4½-in. pots, $3.00 each; $30.00 per dozen.

BRUANTI. 4-in. pots, 12 inches high, 30 cts. each; $3.00 per dozen.
5 " 15 " 40 " 4.00 "

FRAGRANS. 4-in. pots, $2.50 per dozen; $20.00 per 100.
6 " 5.00 " 40.00 "

LINDENI. Fine plants in 5-in. pots, 75 cts. each.

MARGINATA. Young plants of this fine variety. 3-in. pots, 30 cts. each; $3.00 per dozen.

MASSANGEANA. Fine plants in 5-in. pots, 75 cts. each.

SANDERIANA. A new and entirely distinct species. Variegated silvery white. 3-in. pots, 30 cts. each; $3.00 per dozen.

TERMINALIS. 2¼-in. pots, $1.00 per dozen; $8.00 per 100.
3 " 1.25 " 10.00 "

FOR OTHER DECORATIVE STOCK SEE OUR CURRENT TRADE LIST.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA, PA.

PALM Seed. FRESH ON HAND

	100	1000	3000
Kentia Belmoreana	$1.00	$6.50	$15.00
" Forsteriana	1.00	6.50	15.00

J. L. SCHILLER, 404 East 34th St., NEW YORK CITY.
Mention Am. Florist when writing.

ROSES! ROSES!

Brides, Meteors and Maids, 3-inch, $4.00 per 100; $35.00 per 1000. 2-inch, strong, $2.50 per 100; $20.00 per 1000.

Perles, Beauties 3-in., $5.00 per 100; $45 per 1000.

50 at 100 and 500 at 1000 rates. Cash with order.

ROBERT F. TESSON,
West Forest Park, - St. Louis, Mo.

Chinese Primroses

6000, 2½-inch pots, strong, mixed colors, $2.00 per 100.

PANSY PLANTS. 25,000, $3.50 per 1000. CASH WITH ORDER.

JOS. H. CUNNINGHAM, Delaware, O.
Mention the American Florist.

....FIRST QUALITY FORCING ROSES....

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

LA FRANCE
METEOR
PERLE
BELLE SIEBRECHT.
KAISERIN
MME. HOSTE
SUNSET
NIPHETOS
PRESIDENT CARNOT
BON SILENE
BRIDE

3-inch pots, $6.00 per 100. 4-inch pots, $8.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphetos, Kaiserin, 3 and 4-inch.

Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted.

A. S. MacBEAN, Lakewood, N. J.

Roses, Cheap!

500 BRIDE, 500 BRIDESMAID roses, fine, healthy, well-grown stock, 4-inch pots, $6.00 per 100, suitable for forcing.....

We have BON SILENE, MME. SWARTZ, and many others at the same price.....

SMILAX PLANTS, 2½-in. pots, $2.00 per 100.

Terms cash or satisfactory reference from unknown correspondents.

F. WALKER & CO.
LOUISVILLE, KY.

Readers of the American Florist are liberal buyers.

GOLDEN GATE Rose Plants.

SELECTED STOCK.

3 and 4-inch pots, $25.00 per hundred.

For Cash or in Exchange.

American Rose Co., Washington, D. C.

ROSES. ROSES.

No finer grown. Big bushy plants, full of flowering shoots, out of 3 and 3½-inch pots, at $8.00 per 100. Meteors, Brides, Bridesmaids, Perles and Beauties. This stock is cheap at twice the price, but must be sold at once to make room.

SMILAX PLANTS, 2-inch pots, full of roots and covered with plant—to oner to be had—at the lowest price ever quoted. 75c per 100; $5.00 per 1000.
CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

Helpful Reminders.

For outside bloom in the spring and indoor winter bloom it is desirable that bulbs be in the ground as early as possible. The location of a bulb bed has much to do with its success and this is a matter which should be carefully considered when making beds for customers. Avoid the dry corners; many bulbs planted close to buildings are a failure on this account. A thick coating of leaves is the best covering.

The Romans which were put in flats and the Harrisii in pots for early bloom should be rooted by this time. The Romans are doubtless very well rooted and if you have a house which you keep at an even temperature by means of a fire on cool days and nights, it is well to move them in under the bench, but if your house is allowed to change temperature with the weather they are better outside.

In preparing other bulbs for winter be careful to procure the proper varieties. Provide a number of pot plants suitable for retailing, as in most localities potted hyacinths are found more profitable than the cut blooms. Those which are for cutting will do best in flat boxes holding about three inches of soil placed on the ground in rows about four feet broad. They should be well watered to start with and not allowed to become quite dry at any time. After they are well rooted small lots may be taken into gentle heat under benches as your demand for the flowers may require, but do not attempt to bloom any before Christmas unless you have the early flowering varieties. The light shades of blue, pink and pure white are found the most desirable either of tulips or hyacinths. Just before a hard freeze put on a cover of about two feet of straw and another foot of soil with an extra amount in the center to shed water. In this situation they will be available any time up to May 1. Spanish iris should not be brought in before March 1, and then into a cool house for the first two weeks. C. B. W.

25,000 CARNATIONS

Fine Strong Plants, Perfectly Free from Rust.

WM. SCOTT, TIDAL WAVE, DAYBREAK.
PORTIA, SILVER SPRAY, KOHINOOR.

CHARLES SCHAFER,
220 Balmoral Ave, Station X, CHICAGO, ILL.

E. G. HILL & CO.,

RICHMOND, INDIANA.

FLORA HILL, JUBILEE
FIELD CLUMPS
$8.00 per 100.....$75.00 per 1000.

CARNATIONS

FREE FROM RUST.

1000 McGOWAN.....$3.50 per 100
700 CARTLEDGE..... 3.50 per 100
1500 PORTIA..... 3.00 per 100
1200 SCOTT, $3.50. 500 ELDORADO, 4.00 per 100

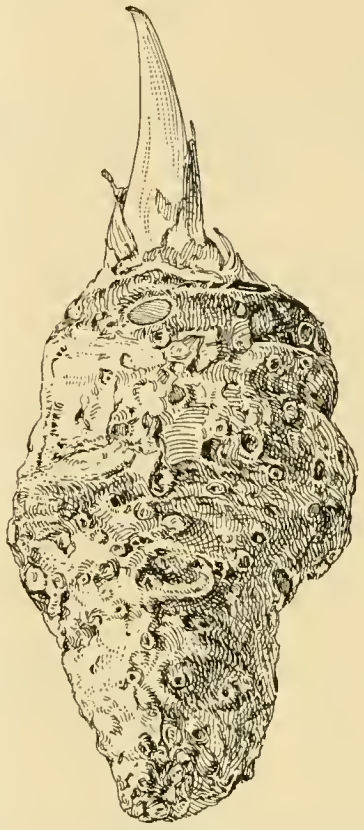
CASH WITH ORDER.

E. C. MARSHALL, Kennett Square, Pa.

Field-Grown **CARNATIONS**
And Violet Plants

GOOD STOCK. LOW PRICES.

A. WASHBURN & SON, BLOOMINGTON, ILL.



CALIFORNIA
Calla Bulbs.

Owing to a scarcity of Lilium Harrisii and Longiflorum bulbs, CALLAS should be a profitable crop for Christmas and Easter sales.

Through our Exchange Sales with best Pacific Coast growers of these roots we are able to deliver choice, carefully cured and evenly graded roots at closest growing prices.

	Doz.	100
FIRST SIZE, 1¼ to 1½-in. in diam.....	$.75	$5.50
SELECT, about 1½ to 1¾-in. in diam....	1.25	7.00
EXTRA SELECT, about 2 to 2½-in. diam.	1.50	10.00

JUST ARRIVED!

Carload of Chinese Narcissus, the best selling bulb for retail trade. Choice, first size, per 100, $4.50; Mammoth Size, per 100, $6.00.
Special Prices Quoted for Quantities.

ALSO READY:
ROMAN HYACINTHS,
P. W. NARCISSUS GRAND.,
DUTCH HYACINTHS,
TULIPS VON SION,
and a FULL LINE.

VAUGHAN'S SEED STORE,

CHICAGO: 84-86 Randolph St. NEW YORK. 14 Barclay Street.

4 Acres Field-Grown Carnation Plants, 91,000.

Our Carnations are grown with the greatest care, free from disease and packed lightly by our improved system of packing, by which we can send them to all parts of the United States and Canada in perfect condition.

CAPTAIN KING	JOE JEFFERSON $2.00 per dozen.	MAYOR PINCREE $10.00 per 100.	C. A. DANA
JUBILEE	BUTTERCUP $1.50 per dozen.	CRIMSON SPORT $8.00 per 100.	HELEN KELLER
BRIDESMAID IVORY	METEOR ARMAZINDY $1 25 per dozen.	MME. DIAZ ALBERTINI DAYBREAK $6.00 per 100.	CHESTER PRIDE STORM KING
SWEETBRIER PORTIA	L. L. LAMBORN SILVER SPRAY 1.00 per dozen.	LIZZIE McCOWAN PURITAN $5.00 per 100.	WM. SCOTT MRS. FISHER

Send for price list..... J. L. DILLON, Bloomsburg, Pa.

FIELD-GROWN CARNATIONS.

Ready now. Standard varieties.
Write for prices.

FIELD-GROWN MARIE LOUISE VIOLETS, $4 per 100.
A1 stock, from pots, $3 per 100; $25 per 1000.

A few hundred BRIDES and MAIDS at a bargain, from 3-inch pots.

CRABB & HUNTER, Grand Rapids, Mich.

FINE FIELD-GROWN **CARNATIONS.**

660 Daybreak.....$5.00 per 100
325 Goldfinch..... 5.00 per 100
850 Portia..... 4.00 per 100
260 Wm. Scott..... 4.00 per 100
1450 McCowan..... 4.00 per 100
400 Her Majesty, pink..... 4.00 per 100
ROSES—La France, $3.00. Meteor, $2.50.

THE NATIONAL PLANT CO., Dayton, O.

FIELD GROWN **CARNATIONS**

Lizzie McGowan, Wm. Scott and Portia, $6 per 100; $50 per 1000.

JOHN REIMELS,
WOODHAVEN, L. I.

It is good business policy to mention the

....American Florist

when you write to an advertiser.

Large, Healthy, Field-Grown
CARNATIONS

of the following varieties:

SCOTT, ROSE QUEEN, MINNIE COOK, BRIDESMAID and ELDORADO.

$5.00 per 100; $40.00 per 1000.

Fine assortment of extra strong FERNS, $4.00 per 100.

Fine large SMILAX PLANTS, from 3½-in. pots, $3.00 per 100; $25.00 per 1000.

PRIMULA OBCONICA, from 3½-inch pots, at $3.00 per 100.

Large field-grown DRACAENAS, 3 years old, $10.00 per 100.

SWAINSONIA PLANTS, from 3½-inch pots, at $6.00 per 100.

JAMES HORAN & SON,
BRIDGEPORT, CONN.

Carnations! FIELD-GROWN.

All sold except	500 Lizzie McGowan
500 Wm. Scott	100 Morello and
300 Emily Pierson	100 Goldfinch

If there is anything here you want, write me and get some low prices on this lot. Address

Chas. Chadwick, Lock Box 11, Grand Rapids, Mich.

CARNATIONS.

We have a fine lot of extra strong plants in the field, including

FLORA HILL, VICTOR, LILY DEAN, MAYOR PINGREE, EMPRESS, ARMAZINDY and others. Also Jubilee in 4-in. pots.

WRITE FOR FULL LIST AND PRICES. Full Price List of PALMS, FERNS, DRACÆNAS, Etc., also Ready.

ROBERT CRAIG & SON, Market and 49th St., Philadelphia.

CARNATIONS

Fine Field-Grown Plants.

	100	1000
NANCY HANKS	$3.00	$25.00
EMMA WOCHER	3.00	25.00
TIDAL WAVE	3.00	25.00
PORTIA	3.00	25.00
LIZZIE McGOWAN	3.00	25.00
KOHINOOR	3.00	25.00
NIVEA	3.00	25.00
MORELLO, MAYOR PINGREE	6.00	50.00
GOLDFINCH	3.00	25.00
HARRISON'S WHITE	3.00	25.00

No order for less than 100 accepted.

REINBERG BROS.
51 Wabash Ave., CHICAGO.

CARNATIONS

NOW READY

EXTRA FINE FIELD-GROWN PLANTS.

	Per 100
MRS. S. A. NORTHWAY	$10.00
Alba Superba	12.00
Evelina	12.00
Cold Nugget	12.00
White Cloud	12.00
Flora Hill	6.00
Lizzie McGowan	4.00
William Scott	4.00
Daybreak	7.00
Tidal Wave	6.00
Morello	6.00

PANSY PLANTS from our INTERNATIONAL Mixed Seed, the very best, $4 per 1000.

VAUGHAN'S SEED STORE

Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

FIELD-GROWN
Carnation Plants

STOCK READY NOW.

A good season has put our field-grown stock for Fall planting in excellent condition; clean, healthy and strong. The condition of our ground is such to insure the lifting of a plant with little or no loss of roots. Send for Price List.

F. Dorner & Sons Co.
LA FAYETTE, IND.

CARNATIONS

H. WEBER & SONS,
Oakland, - Md.

A good adv. in a good paper will bring good returns.

LAST CALL FOR ...CARNATIONS

To close them out, we offer the following varieties at the very low price of

$3.00 PER 100; $25.00 PER 1000.

4000 ROSE QUEEN,	500 IVORY,
2000 UNCLE JOHN,	300 SILVER SPRAY,
1000 ALASKA,	300 TRIUMPH,
1000 DAYBREAK,	200 TIDAL WAVE,
1000 ALBERTINI,	200 BRIDESMAID,
1000 WM. SCOTT.	☞This stock is all in fine condition.

If you are in the market for good Carnation stock, speak quick. Here is your chance.

☞ TERMS: CASH WITH ORDER.

Address **H. W. BUCKBEE, Rockford, Ill.**

EXTRA FINE CARNATIONS

WHY YOU SHOULD BUY YOUR PLANTS OF US:

1st. Because your order will be filled immediately.
2nd. Because our plants make a great mass of fibrous roots which enable them to stand long shipment well and to start at once when planted.
3rd. Because our plants are healthy and we grow the best varieties

Send for prices..... GEO. HANCOCK & SON, GRAND HAVEN, MICH.

CARNATIONS.

FINE, LARGE, FIELD-GROWN PLANTS....

500 Flora Hill, best white	$6.00 per 100
500 Scott	4.00 per 100
450 Tidal Wave	4.00 per 100
200 Ivory	4.00 per 100
700 Silver Spray	4.00 per 100
400 Daybreak	4.00 per 100
150 Bridesmaid	4.00 per 100
150 Rose Queen	4.00 per 100

For Sale: 500 WHITE SMITH GOOSEBERRY plants, extra strong, 2-year, never mildewed in 30 years, $2.50 per 100.

E. HAENTZE, Fond du Lac, Wis.

CARNATIONS

Fine Field Grown

Rose Queen, Bridesmaid, Emma Wocher, Portia, Ivory, Daybreak, Silver Spray, McGowan, Mrs. C. H. Duhme, Armazindy, $3.00 per 100.

MRS. E. MILLER, Ironton, Ohio.
Mention the American Florist.

Field Grown **CARNATIONS**

Daybreak, Eldorado and Anna Webb. @ $6.00 per 100
Portia, McGowan and Scott, @ $4.00 per 100.
Free from rust. Cash with order.
DANA R. HERRON, - Oleen, N. Y.

FIELD-GROWN
CARNATIONS

	Per 100	Per 1000.	2nd size,	100	1000
20,000 Wm. Scott	$5.00	$40.00.	"	$3.00	$25.00
10,000 McGowan	4.00	30.00.	"	3.00	25.00
Daybreak	—	—	"	4.00	30.00
Eldorado	6.00	50.00.	"	4.00	30.00
Portia	5.00	40.00.	"	3.00	25.00
Alaska	—	—	"	3.00	—
Mrs. Fisher	5.00	40.00.			

EDW. J. TAYLOR,
.....Southport, Conn.

CARNATIONS

800 DAYBREAK	$4.00 per 100
500 McCOWANS	3.00 "
400 SCOTT	3.00 "
250 METEORS	3.00 "

At these prices to close them out. They are all large size plants, healthy and stocky.

W. A. WETTLIN, Hornellsville, N. Y.
Please Mention The American Florist.

Buffalo.

STOCK IS FAIR AND TRADE WILL BE WHEN FROST ARRIVES.—KASTING REARRANGES HIS STORE.—PALMER & SON'S IMPROVEMENT.

Roses are coming in very good, but a frost will increase the demand for everything. Kasting is getting in some very clean and perfect Beauties. Maid and Bride show improvement. Kaiserin is still good, while Meteor is all that one could wish. Carnations are fair and offer good prospects for everyone. Asters are on the wane.

The Florists' Club had another meeting last Wednesday and everything connected with the flower show indicates success.

Increased business has compelled Kasting to take the space used as an office for a salesroom. He is enlarging his office also and when completed it will be an improvement both for store and office.

Palmer & Son have about completed the alterations in their store, and from two small windows they have now one large one so arranged that ferns and other plants can be used in front and have the pots entirely hidden. The fixtures are all in white and gold and on each side as you enter there is an immense mirror. The colors used on the wall and ceiling harmonize beautifully with the other things. An office upstairs is reached by a spiral stairway. The store runs from one street to another, which makes it very convenient for receiving and sending out stock. W.

Silver Side, Del.

Looking through the greenhouses of Mr. Trump (Penn Rock Co.), on the occasion of a recent visit, the roses were found to be in fine shape, the grafted ones being worthy of especial notice. Some of the popular commercial varieties are grown. Grafted plants of American Beauty are being used for summer cutting. Mushrooms form one of the staple crops of this firm and it has always proven satisfactory. Carnations are all in their winter quarters and looking well. Flora Hill is especially good, with its excellent and almost perfectly fringed, fragrant flowers, which can be cut at any time. These have been lifted for over a month and the early moving apparently suits them. Some Mayor Pingree look promising. I never see a new yellow carnation in these days without feelings of surprise that old Buttercup still leads them all when color is under consideration. Pingree and Eldorado are excellent when we are talking about quantity and good sized flowers, but the intense yellow color of Buttercup is lacking in the newer varieties. Violets were being planted in their blooming quarters and bid fair to give a full crop of flowers when the proper time comes.

A wholesale business is done here exclusively, as the store at Wilmington has been leased. Mr. H. T. Dumont handles the product with credit to himself and satisfaction to the consignors. The location is easy walking from Silver Side Station, and there is lots of room on Mr. Trump's estate in which to develop this establishment, and it is sincerely to be hoped that the results in the immediate future will warrant continuous progress in that direction. L.

FULTON, N. Y.—Charles Malone is seriously ill.

FALL RIVER, MASS.—M. Conroy & Co. have made an assignment for the benefit of their creditors, according to rumor.

GUARANTEED

Fresh Seed From Australia.....

	Per 100	Per 1000
Kentia Belmoreana or Kentia Forsteriana, delivery included.....	$.64	$ 4.99
Samples on application to intending purchasers.		
Lil. Harrisii, 5x7	4.00	37.00
Freesias, Cal grown, 3/5-1/2, delivered....	.50	3 25
" Pure white flowers, guaranteed	.65	5.00
Calla Æthiopica, 3x5 in.....	4 50	40.00
" " 4x6 in.....	6 00	55.00
" " 5x7 in.....	8 00	75 00

Cyclamen Giganteum Bulbs 1 1/2-3 in. diam., doz. $1 00 In pure white, rose, crimson white with red eye, rose with dark eye. Select Seed from Prize Flowers of above sorts, separate or mixed. Clearance price, 100 seeds, 75c; 1000 seeds, $5 00.

Choicest PANSY SEED from Germany and Scotland Giant Flowers, oz., $3 50; 1/4 oz., $2 00; 1000 seeds, 25 cts. 5 per cent. for cash on above prices. Address

H. H. BERGER & CO.,
47 Barclay Street, NEW YORK.
(Established 1878)

STRONG, FIELD-GROWN

Variegated Vincas.

Large plants suitable for 5-inch and 6-inch pots, $6.00 per 100.

Hydrangea Otaksa.

Nice stock, just right for 5-inch, 6-inch and 7-inch pots, at $5.00, $8.00 and $10.00 per 100.

Dracaena Indivisa.

Suitable for 4-inch pots, $6.00 per 100.

VICK & HILL CO., Rochester, N. Y.

GREATEST BARGAIN IN PLANTS

Because all stock offered is in A-I condition.

ROSES—Maids and Brides, 4-inch, $7.50 per 100. Meteor, Maids, Brides, Perles, Niphetos, 3-inch, $5.00 per 100.

CARNATIONS—Field-grown, ready now. Daybreak, Scott, McGowan, Jubilee, Rose Queen, Helen Keller, $7.00 per 100, or $65.00 per 1000.

VIOLETS—Marie Louise, field-grown, ready now, $6.00 per 100, or $55.00 per 1000.

RUBBER PLANTS—Ficus Elastica, 5-inch at $5.00 per doz.

BEGONIA REX—4-inch pots, $20.00 per 100.

WM. F. KASTING
BUFFALO, N. Y.

ASTILBE CHINENSIS (Spiraea) First Class

Certificate Mass. Hort. Society.....
Three sizes, fine stock, $20, $15, $10 per 100.

We recommend September and October planting for..... **HARDY HERBACEOUS PERENNIALS** IN VARIETY.

Price list and descriptive catalogue on application.

REA BROTHERS, Norwood, Mass.

DOUBLE VON SION

Extra fine Bulbs, per 100, $1.75; per 1000, $15.00.

Freesia Refracta Alba

1st size, per 100, 75 cts.; per 1000, $5.50.

L. C. BOBBINK, Rutherford, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

SPECIALTIES IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N.Y.

BULBS

Of All Kinds.

Hulsebosch Bros.,

ENGLEWOOD, N. J.

REX BEGONIA

	Per 100
34 Named Varieties, 2-inch pots.....	$8.00
34 " Rooted Cuttings,	4.00
Mixed " " "	2.00
" " 2-inch pots.....	4.00

Write for prices on other stock. Terms Cash or C. O. D.

GREENE & UNDERHILL
WATERTOWN, N. Y.

ASPARAGUS

PLUMOSUS NANUS, 2 1/2-inch pots.....$7.00 per 100
ROSES, Bride and Bridesmaid, 3 1/2-in. pots, $5 per 100
Cyperus Alternifolius, 2 1/2-in. pots.....$2.50 per 100
Grevillea Robusta, 2 1/2-in. pots.....$2.50 per 100

NATHAN SMITH & SON,
ADRIAN, MICH.

Geranium "MARS"

STOCK PLANTS, FIELD GROWN, READY NOW....

$1.50, $2.25, $3.00 per doz.; $15.00 per 100. Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

Rooted Cuttings of ACERATUM Princess Pauline, the most distinct and novel variety of dwarf, compact habit; color sky-blue. Most desirable plant for retail trade, per 100 $2 00.
CYCLAMEN PERSICUM, in four colors, fine plants, 4-inch, per 100 $12 50.
ROSES—Souv. de Wootton and Bougere, 4-inch, per 100 $5.00.
Field-Grown CARNATIONS—Jubilee, Armazindy, Mayor Pingree, per 100 $7.00. Alaska, McGowan, Kohinoor, Daybreak, Rose Queen, Scott, Dorner and W. D. Sloane, per 100 $5.00.

Cash with order. CHRIST. WINTERICH, Defiance, O

ASPIDISTRA Lurida fol. var. just now in good condition without leaves, good roots with sprouts, $6 per 100; sample, 90c per doz. postpaid. Canna "Florida" for trial 10 cents.

Asparagus Sprengerii Seed.... Fresh from the vines..... 100, $1.00; 1000, 8.00

Pampas Grove Nurseries, Greenland P. O., Florida.

Mention the American Florist.

FOR SALE.

100,000 Strong LATANIA Seedlings, very well rooted, $25 per 1000.
30,000 FERNS for dishes, very large, 2 1/2-inch, $3 per 100; $25 per 1000.
4,000 SWORD FERNS, 4-in. $9, 4 1/2-in. $10 per 100.
2,000 RUBBER TREES, in excellent condition, 5 1/2-in. 50c; 6 in. 70c. You never saw better Ficus.
60,000 PALMS in variety. All sizes. (Medal awarded on Palms at World's Fair, 1893).
10,000 No. 1 'MUMS, ready for this fall.
Try us on No. 1 CUT FLOWERS. 26 greenhouses.

ALBERT FUCHS, 2059-73 N. Halsted St. CHICAGO.

McCOWAN CARNATIONS, field-grown, strong, healthy, $3 per 100; $28 per 1000.
CINERARIA and BOSTON IVY, 2 1/2-in., $2.50 a 100.
GERANIUM CLUMPS, $5 per 100.
INSALL & LEADBETTER, Moorestown, N. J.

LOWEST PRICES ON BULBS, BUT CASH!

Send in your wants for quotation, no price list issued.

J. L. SCHILLER, 404 East 34th St., NEW YORK.



CUT SHOWING 12,000 GERANIUMS.

GERANIUMS

A NEW BRUANT

COL. BARRE.

Semi-double dwarf and very fine, on entirely new color in this choice selection, the lower petals are rosy pink, upper petals darker and marked scarlet at the base, most all the florets throw from six to eight petals. Price 25c each.

M. OTT.

M. Ott, very large, circular flowers, magenta shading to pure violet, upper petals blotched crimson, 15c each.
Dr. Ernest Rawson, deep purple, velvety crimson, 10c each.
Puritan, white ground shaded salmon, single, 10c each.
Spotted Gem, single, fancy, with white ground and pink spots, 10c each.
Snow Drops, white as snow, single, 10c.

C. MOREL.

C. Morel, semi-double, very large, pure red, plant of compact, sturdy growth; long rigid flower stalk. A magnificent bedder, and also extra fine for pot culture. Price, $1.00 per dozen; $7.00 per 100.
Mine Hoste, rich crimson lake at the edges of the petals, changing to rosy carmine; 50c per dozen; $4.00 per 100.
Mme. Bruant, fancy, single; 50c per dozen; $3.00 per 100.

S. A. Nutt, semi-double, deep red	$2.00 per 100
Bruant, red	2.00 "
Harmine, double white	2.00 "
White Swan, double white	2.00 "
Bucharlats, double white	2.00 "
La France, double white	2.00 "
Dr. Blanche, double orange red	2.00 "
L. Coutable, double light rose	2.00 "
La Sid, double red	2.00 "
Mrs. Gladstone, double light pink	2.00 "
Marvel, double dark red	2.00 "
Columbia, single	2.00 "
Gettysburg, single, bright crimson maroon	2.00 "
Clifton, single, deep red	2.00 "
Mrs. G. M. Gaar, white	2.00 per 100
Happy Thought	3.00 "
The Queen Pelargonium	3.00 "
A. Ricard, brilliant shade of orange red	2.50 "
Beante Poitevine, semi-double, enormous flowers, Aurora pink, shading to salmon center	2.50 "
J. D. Cabos, single, soft rosy pink	2.50 "
Mrs. E. G. Hill, single	2.00 "
Mrs. A. Blanche, single, fine	2.50 "
W. P. Simmons, single, bright orange scarlet	2.00 "
Rooted Cuttings from 2-inch pots at above prices, or	$15.00 per 1000
2¼-inch pot plants	$2.25 per 100, or 20.00 per 1000
Our selection, 2¼-inch pots	$2.00 per 100, or 15.00 per 1000

Remember 5 plants go at 100 rates.

THE MORRIS FLORAL CO., Morris, Ill.

PANSY KING!

FOR SALE—Large lot of Pansy Plants, Giant Mixture, in lots of 500 or more, 1st of August planting. $1.00 per M.

L. T. SEAVER, Tufts College, Mass.

VIOLETS. & SMILAX.

VIOLETS, Marie Louise, field-grown, strong and absolutely healthy, $4.00 a 100; $35.00 a 1000.
"Seconds" (inferior only in size), one-half above prices.
SMILAX, 2½-inch, fine, once cut back, $1.00 a 100; $8.00 a 1000.
Cash with order please. Samples, postpaid, 10c.

R. KILBOURN, Clinton, New York.

Pink Paeony Clumps

FOR FALL PLANTING

At $10.00 per 100. Will divide into two and three. Easily cultivated; need no protection during winter. Any florist having land will find them big payers. Freight any distance.....

BRANT & NOE, Forest Glen, Ill.

Hydrangea Otaksa.

Fine 6-inch pot plants, at	$23 per 100
" 5 " " " "	20 " "
DRACAENA INDIVISA, pot grown, 6-inch	20 " "
" " " " 5 "	15 " "
UMBRELLA PLANTS, 3 and 4-inch	$3 and 4 " "

See Convention Number for other stock.

CARL HAGENBURGER, - West Mentor, O.
CASH, PLEASE.

SMILAX.

Strong, 3-inch, one year	$2.50 per 100
" 2½ " " "	2.00 "

F. A. BALLER, Bloomington, Ill.

HERR'S PANSIES. BUY THE BEST

SEED at $1.50 per ounce. A liberal packet for $1.00.
PLANTS at 75 cts. per 100, or $4.00 per 1000; 250 for $1.00, by express.

ALBERT M. HERR, LANCASTER, PA.

Pansies Worth Raising.

EXCELLENT SEED.

3-16 oz. $1.00; 1 oz. $4.00; up in 8 to 10 days, if properly treated.

FINE STOCKY PLANTS, $4 00 per 1000. f. o. b. express. CASH WITH ORDER.

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H. Wrede,

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PANSY SEED.

144 First Prizes, the highest awards World's Fair, and Hamburg, 1897.
1000 Seeds, finest mixed, 25c.
1 oz. " " " $3.75

Price List on application. Cash with order.

Zirngiebel's Giant Pansies

PLANTS of the above strains at the same rates as the common varieties, viz: $5 per 1000. With our system of packing, plants can be sent safely any distance.

DENYS ZIRNGIEBEL, Needham, Mass.

PANSY PLANTS!

Stocky plants from Engle's sel. et strain, $4.00 per 1000, cash.

W. J. ENGLE, - Box 211, Dayton, O.

PANSIES

Roemer's Superb Prize Pansies.

This improved strain includes all the leading novelties, strong, bushy plants, ready now, 60c. per 100, by mail; $2.00 per 500, by express; $4.00 per 1000; $7.00 per 2000; $10.00 per 3000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at $1.00 each.

M. B. FAXON,
Lock Box 1528. BOSTON, MASS.
Correspondence solicited.

300,000 Pansy Plants

The JENNINGS Strain.

Fine field-grown, stocky plants, in great variety of colors. All large flowering.

By mail, 75 cts. per 100; express, $4.00 per 1000; 5000, $18.00. Seed of above, $1.00 per pkt.; $5.00 per ounce.

CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, Southport, Conn.
Grower of the Finest Pansies.

Pittsburg.

KNIGHTS TEMPLAR MAKE BUSINESS BOOM. —NEWLY DECORATED RETAIL STORES.— A DEPARTMENTAL VENTURE.—NOTES.

Elliott & Mann are busy arranging for a large number of decorations ordered for Knights Templar conclave week. Among those which they secured are the headquarters of the Grand Commanderies of Pennsylvania, Kentucky, Virginia and Illinois, together with over a dozen lesser decorations. This firm, with A. W. Smith, has the decorating of the large hall where the banquet will be held. There will be seats for 1100 and each will have one-half of the hall and tables to decorate.

A. W. Smith has re-decorated his store-room on Sixth avenue and improved the appearance very greatly. The walls are finished in dark green, with a deep frieze of stenciled design in a lighter shade of green.

Kaufman Bros., operating the largest department store in the city, will add a florist department in charge of Mrs. Marie Belt, of Baltimore, Md., who will have as assistant Miss Anna Klopfler, who until recently had a florist's store on Smithfield street.

Breitenstein & Flemm have remodeled and re-decorated their place. The room is bright in the day time and lights up beautifully under the electric lights. Tables are used to make the display of flowers, and with palms and decorative plants in fine arrangement the effect is highly artistic.

The Pittsburg Florists' Exchange is the name used by S. S. Skidelsky and Frank F. Fischer for their wholesale cut flower commission house at 444 Sixth avenue. They propose to handle a full line of florists' supplies in addition to cut flowers.

Julius W. Ludwig, Allegheny Market, has completed a very handsome piece of work in immortelles of a Sir Knight, head and bust, in bas-relief with crossed swords and wreath encircling the whole. It is about two and one-half feet in diameter and very smooth.

Joseph E. Rolker, of New York, was a visitor this week. REGIA.

Paterson, N. J.

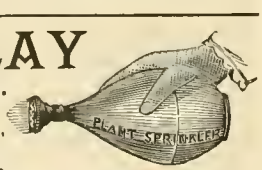
The last meeting of the Paterson Florists' Club was an interesting one. The market question, which has been a disturbing element, was finally reported upon and then gently laid at rest, the city counsel having given it as his opinion that florists who sold their own productions could not be disturbed.

Ed. Sceery offered to read an essay upon "crape chasers" at the next meeting and if the essay is as sparkling as some of the statements which he made concerning the Paterson brand it will be worth everybody's while to hear him talk.



GEO. KELLER & SON,
MANUFACTURERS OF
Flower Pots.
Before buying write for prices.
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SPRINKLER...
INDISPENSABLE
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THE HARRISII DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent.

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THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25 cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.

THIS INSECTICIDE IS NON-POISONOUS.

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OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

☞ Write us before placing your orders elsewhere.....

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Just at present we have a surplus and room is scarce. We will fill orders to the trade as long as surplus stock lasts at $12.00 per ton; $7.00 per ½-ton; $1.00 per 100. Cash must accompany order.

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Standard Pots Made by KELLER BROS.

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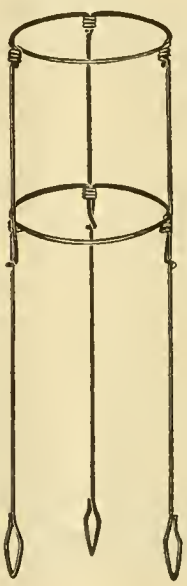
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The MODEL Extension Carnation Support



QUEENS N. Y., Feb. 16, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97
MR THERON PARKER, Dear Sir:—Your wire stake is certainly a gem Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes
AT LOWEST PRICES.

Write for Prices, Circular and Special Discounts for Early Orders.

The Model Plant Stake Co.,
THERON PARKER, Mgr., Inventor and Patentee,
22 MORTON STREET BROOKLYN, N. Y.

Standard Flower Pots.

	PRICE LIST OF STANDARD POTS:—				
2¼-in. pots, per 1000	$3 00	6-in. pots, per 1000	$22.00		
2 " "	3 25	7 " "	35.00		
2½ " "	3 50	8 " "	50 00		
2¾ " "	4 00	9 " "	75.00		
3 " "	5.00	10 " per 100	10 00		
4½ " "	7 25	11 " "	15.00		
" "	9 00	12 " "	20 00		
" "	13 80	14 " "	40 00		
		16 " "	75.00		

Seed and bulb pans, same price as pots. Saucers to match pots, one-half price of pots. Ten per cent off for cash with order. Send for price list of Lawn Vases, Hanging Vases and Cylinders. Address

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QUICKLY DOES IT.

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Universal Insecticide

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For Sale at the Seed Stores.

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CARNATION SUPPORT



OVER TWO MILLION IN USE.

$1.00 per 100; $8.00 per 1000; $35.00 per 5000.

Lengths, 10, 13, 18 and 20 inches.

SOUTHPORT, CONN., Aug 31, 1898.

Mr. H. F. Littlefield,

Dear Sir:—We have bought thus far about 25 000 of your Excelsior Carnation Supports and consider it one of the best yet introduced We will want 5000 to 10,000 more this year. Very truly yours. EDW. J. TAYLOR

CALVANIZED

STEEL ROSE STAKES.

2 feet long, $5.00 per 1000
3 feet long, $7.00 per 1000
4 feet long, $8.00 per 1000

Cut any length at proportionate prices.

H. F. LITTLEFIELD,

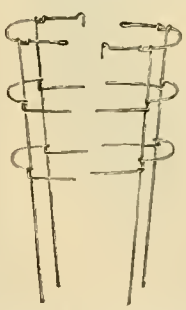
Worcester, Mass.

HORAN'S PATENT

Carnation Support

Patented Aug. 3, 1897.

Following are a few of the many testimonials received from various growers:



Buffalo, N Y, Jan. 25, '98
Mr Jas. Horan & Son,

GENTLEMEN: — I have in use a few hundred of your patent Carnation Supports. They are supporting Flora Hill. While I consider the first cost rather high, they answer the purpose admirably, not crowding the plants, but affording light and air between them. They should be of various heights and sizes, to suit the different varieties of carnations.

Very respectfully, WILLIAM SCOTT.

Connellsville Pa, Jan. 31, '98.
Mr. Jas. Horan & Son,

GENTLEMEN:—I have given your supports a fair trial and consider them far ahead of anything I have ever seen for the purpose, and although they are a little expensive at the start, the fact that the same support can be used year after year, makes them very cheap, and I would gladly recommend them to anyone wishing a perfect support for carnations. Yours truly, L. D. WOODS.

We have made an improvement on our Supports which admits of the rings being let out two inches, which prevents the plant from being crowded as it increases in size. While we think the size we have adopted suitable for nearly all the varieties now in cultivation, we can furnish larger sizes at a slight increase of cost over the regular sizes to those who desire them.

JAS. HORAN & SON, Bridgeport, Conn.

NATIVE GUANO!

(Desiccated Night Soil.)

The ideal florist fertilizer: contains all the elements of plant food available. Pleasant to handle. By bag, ton or carload.

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Pulverized, car lots	$8 00
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IF YOU

or your neighbor have any reason to wish a change in the manner in which you are listed in our 1898 Directory, drop us a postal card now, to aid us in the work of revision for the next issue.

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FOR SALE BY SEED STORES

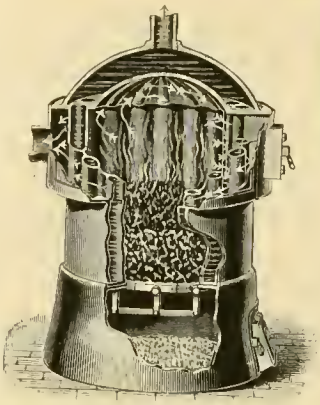
FOR FREE PAMPHLET WRITE TO

LOUISVILLE SPIRIT CURED TOBACCO CO LOUISVILLE, KY

Worcester, Mass.

We have had ideal weather in which to house our carnations in this vicinity and they are now progressing finely, although a trifle smaller than last year. Of the newer varieties, Flora Hill made the largest plants in the field and is really the most promising white variety grown here. Evelina also made large plants and gives promise of an excellent and early crop. Alba Superba, while not as large as Hill is looking strong and healthy and has that bloom on the foliage that we like to see. Bon Ton made a splendid growth; perhaps the first crop may be a little short in the stem but that defect will soon disappear. New York developed stem rot rather badly and about twenty per cent of the plants died in the field. The remainder are doing well, Mrs. James Dean is clean and thrifty but rather undersized, as is Mrs. Bradt. John Young was also subject to stem rot. Victor made good strong plants and I anticipate splendid results from this sport. C. A. Dana made a much better showing than last year and the second year may tell a different story in regard to this variety. The older kinds, Daybreak, Scott, Edith Foster, Freedom, Alaska, Albertini, Rose Queen, Meteor, Hector and Nivea have nearly all made plants equal to the average for a number of years. Eldorado I grew inside this summer and it compares very favorably with what I have seen of the field grown plants in this locality.

A. H. L.



"DORIC" HOT WATER HEATER. SECTIONAL VIEW.

Doric

CAPACITIES FROM 400 to 2600 FT. 2-IN. PIPE.

The Best Boiler on Earth for Greenhouse Heating.

ALSO MADE FOR STEAM.

Water Section Made in One Casting. No Leaky Joints to Worry Over. Deep Fire Pot. No Need to Sit Up All Night to Keep Your Fire Going.

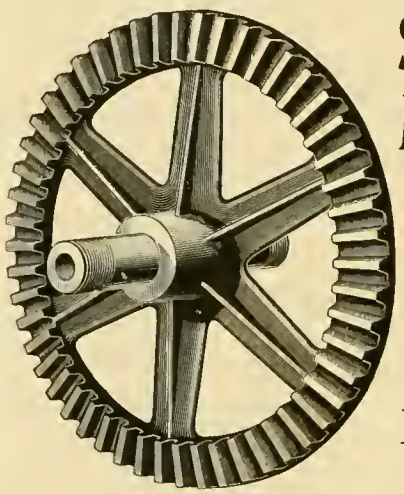
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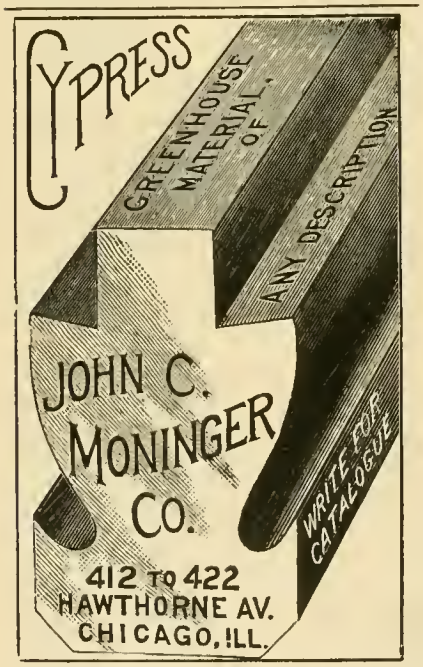
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YOUNGSTOWN, OHIO.

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BEST GRADES. PERFECT WORKMANSHIP.

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CYPRESS

IS MUCH MORE DURABLE THAN PINE.

CYPRESS SASH BARS

UP TO 32 FEET IN LENGTH OR LONGER.

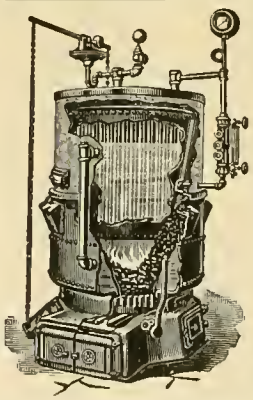
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is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

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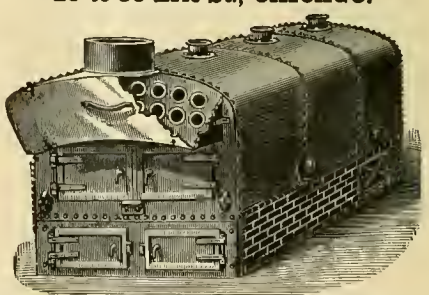
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PLUMBERS', STEAM, GAS and GREENHOUSE SUPPLIES.

Telephone Lake View 88.

375 LINCOLN AVE., CHICAGO.

Nashville.

There will be no scarcity of flowers this winter. The best roses now coming in are Meteor, Perle, Kaiserin and American Beauty, which are very good indeed for this early in the season.

One of the most interesting places to visit around this city is the greenhouses of the Central Hospital for the Insane. Of course these greenhouses are not for commercial purposes, but the efficient gardener, Henry Gray, has a most beautiful collection of palms, crotons and foliage plants of all kinds. In one house the old Marechal Niel and Lamarque clamber entirely over the sides and in a house built especially for it is a magnificent Victoria regia, which rewards care with frequent blossoms. During the past summer the greenhouses were refitted and entirely renovated. The beautiful lawn in front of the buildings is dotted here and there with flower beds which are a mass of bloom.

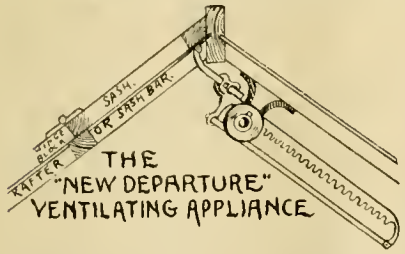
Florists in this locality do not seem to fully enter into the ribbon bedding idea. Either our summers are too dry for great success or there is not that demand and appreciation shown in cities farther north. Some of the best successes in this line during the past summer were the "C. E." beds made in honor of the Christian Endeavor convention, which met here in July. Some of these beds were very beautiful. M. C. DORRIS.



LOUISIANA Cypress Green House Material.

RED CEDAR

WRITE FOR ESTIMATES.



You can not get a *GOOD THING* for nothing. But the price of this apparatus is next to nothing. Send for price and description to

J. D. CARMODY Evansville, Ind.

Cypress Greenhouse Material.

We are the pioneers in Clear Cypress Greenhouse Material. We discovered that Cypress is better than any other wood for greenhouses from top of posts up and we introduced it, and fought for it against many prejudices, and finally succeeded in bringing it into general use.

Others have attempted to follow where we lead, others are trying to reap what we sowed, but we have the experience and are recognized as experts in greenhouse construction.

Write for Circulars or Estimates.

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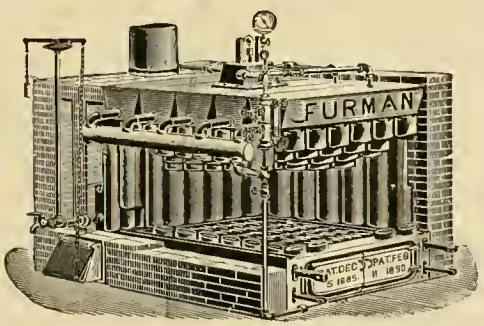
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On Your Coal Bills

If your Houses are Heated by a Furman Boiler.

Send for large Illustrated Catalogue, Florists' Edition. Let us make you an estimate FREE.

THE HERENDEEN MFG. CO.

BRANCH OFFICES: 20 Vine Street, GENEVA, N. Y.
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The Largest Builder Of Cucumber Houses in the World

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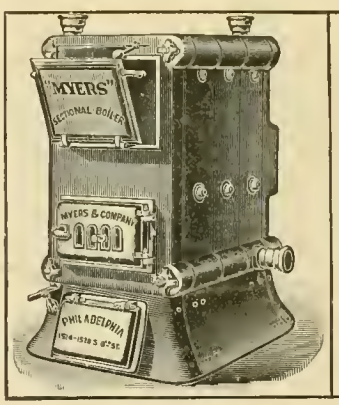
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OFFICERS-ELECT [to be installed Jan. 1, 1899]. W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899
ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899.
ELMER D. SMITH, Adrian, Mich., secretary.

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Notes of a Tour in Europe.

[Read by Henry F. Michell, October 4, before the Philadelphia Florists' Club.]

I was surprised, and rather taken unawares, when the chairman of your committee, G. C. Watson, asked me upon my return from Europe, to prepare an essay on the interesting things I saw during my travels across the water. He induced me, however, to accept this duty.

Leaving New York on the steamer Friederich der Grosse on June 23, we arrived at Southampton, after a very pleasant journey, on July 1. I especially noticed, on looking out of the railroad car windows on my way to London, that many of the track embankments were cultivated with vegetables and flowers. Some of them appeared to be commercial, but most of them belonged to the residences near by. This seemed quite new to me and most interesting, as they were kept clean and trim.

Reaching London, and getting myself located, I started out to look for points of interest, especially in the horticultural line. First I took a trip to Hyde Park, and among the interesting points there I noticed immense crowds of fashionable people, both walking and driving. The flower bedding is done here on a mammoth scale. As far as the eye can reach are seen most artistic beds. Violas do most excellently in England; also begonias, the semperflorens and tuberous rooted varieties, as well as fuchsias, heliotropes, etc., which are used in great quantities. They do much better there than in this country. The lawns are kept closely cut, which was a great delight to me; the turf was soft and velvety, and rich, dark green in color.

My next visit was to Hampton Court, in the suburbs of London. This was the country seat of the famous Cardinal Wolsey, the "favorite" of King Henry VIII, and these magnificent gardens, extending along the banks of the Thames, are among the most pleasing that I have ever seen. Old fashioned flowers abound here. Roses of all colors climb along the walls and hang in heavy clusters to charm the visitor. Heliotropes, pansies, and violas vie with geraniums, begonias and fuchsias to make a picture never to be forgotten. Along the many well kept walks are great numbers of beautifully shaped sweet bay trees, as well as orange and lemon trees, all in immense square tubs, which have movable sides so that the plants can easily be taken out of them. In a grapery, especially built for it, is the famous Hampton Court grape vine, a Black Hamburgh, planted by King George III in the year 1768. After three enlargements of the house it now covers a space of 2200 square feet. When I saw the vine it was literally covered with immense bunches of fruit, not quite ripe, but still very tempting. All the fruit is sent to Her Majesty, Queen Victoria, for her own personal use and for distribution to her friends. There are many other interesting features of the gardens. A maze in which one can easily wander for a long time without finding his way out, is one of the attractions. The lawns here are also kept in a state of great perfection by having plenty of workmen constantly employed with mowers, shears and rakes. One special feature was noticeable, that is, the absence of the signs, "Keep off the grass," but instead, there are signs, "Please do not walk on the edges of the grass."

My next place to visit was Kew Gardens, the school of the best English, Scotch and Irish gardeners. Next I went to the Mammoth Crystal Palace with its large number of flower beds, etc. The next place on my programme was a visit to Carter & Company's extensive seed trial grounds at Mortlake, where I posted myself on the best things of especial merit. My next trip took me to Sutton & Son's seed growing establishment at Reading, about an hour's ride outside of London. There, also, I had a most interesting visit as everything is in the highest possible state of cultivation and good order. Among the most notable specialties were tuberous rooted begonia blooms eight inches in diameter, mammoth gloxinias, Nemesia Suttoni, giant flowering primulas, streptocarpus, forcing tomatoes, and others too numerous to mention.

I then went to Belgium, arriving at Ostende, the famous watering place, whence I went to Brussels and Ghent, the headquarters for tuberous rooted begonias and gloxinias. Great improvements are being made in begonias by encouraging and growing extensively species which produce their flowers on stiff stems, thrown well above the foliage, as well as large size of bloom and brilliant colors. From Belgium I went to Holland, stopping at Haarlem, which is the starting point of the great bulb growing district. This is certainly a most interesting country; the weather was rather cold and wet while I was there the first few days, but turned out fine after the third day. I was well entertained there, especially by Mr. L. Van Wavern, who is one of the oldest, largest, and most reliable growers of bulbs. Of course, I visited a number of other bulb growers, as the bulb farms nearly all adjoin, and I certainly gained much knowledge in Holland, as the members of the leading firms were very communicative and showed me everything about the bulbs.

After leaving Holland I made my way to Cologne and from there I went by way of the beautiful Rhine with its magnificent vineyards, to Mainz and thence to Frankfort. The most interesting place I visited in Frankfort was the Palmen Garten, or Palm Garden. This, I think, is one of the finest landscape effects that I have ever seen. The bedding of plants was done on a perfect scale; in fact, it was wonderful the way the many carpet bedding designs were kept trimmed by a large force of gardeners. Carnations, heliotropes, and other flowers are brought to great perfection here, especially the roses. A wonderful sight was a Crimson Rambler rose twined about an old dead tree which served as a trellis for it. It stood fully fifteen feet high and was covered with magnificent clusters of bloom. The head gardener informed me that this plant had over 2000 open flowers on it at that time. Another notable and new sight for me was to see Clematis Jackmanii trained in the shape of large umbrellas. The entire tops were a mass of rich purple blooms.

Leaving Frankfort I went to Erfurt in Germany, which is the great seed growing district. It took me three days to go over Mr. E. Benary's extensive grounds to carefully inspect and note specialties most interesting to the seedsman. The greatest care is taken here with every variety of seed grown and the force of employes is immense. One special feature that attracted my attention was the transplanting of carnation seedlings, four men planting diagonally four rows at one time. The foreman, on my inquiry, told me that the work is much better and more quickly done by that process of planting. Every known flower and vegetable is grown here, but I must omit going into details.

After spending nearly a week at Erfurt I visited Berlin. Most interesting in the horticultural line was the Thiergarten, a beautiful natural park kept in excellent order. From Berlin I traveled into Switzerland. The most beautiful place I visited there was Luzerne, the garden spot of the republic. Plants and flowers are here in great abundance, principally on the quays, where they flourish in excellent health and everything is carefully attended and constantly watched.

The next place on my route was Paris. Notable here are the gardens of Luxembourg, which adjoin the palace of that name. These are quaintly laid out in the old style. A large part of the gardens is terraced, and along the terraces are set, at intervals, statues of the French queens cut in white marble, giving the gardens a very rich effect. Carpet bedding is done in profusion and is pleasing to the eye, especially looking down from the terraces. The gardens of the Tuileries are magnificent and cover a large area. One of the most noticeable effects in Paris is the long boulevard of the Champs Elysees, lined on both sides with most magnificent trees, which are trained and trimmed in such a way that they have the appearance of a long arbor. They are trained in a lateral effect, branching out on the sides only and not arching or covering the drive. This is certainly worth seeing, and I shall never forget the general effect of this system. Passing through this magnificent avenue, which is terminated by the beautiful Arc de Triomphe, or Triumphal Arch, we reach the Bois de Boulogne, or Boulogne Woods, the fashionable promenade and drive of the Parisians. There are two large and beautiful lakes in this park and along the drives are seen gay parties enjoying to the fullest extent the grand landscape.

My next trip took me to Versailles, the palace of the French kings, about fifteen miles from Paris. The gardens and fountains here are the most famous in the world, but they are not kept up as well as they should be. One of the gardeners told me that the appropriations were very much reduced lately, but the whole gigantic grounds are still magnificent. Directly in front of the palace is a large lake called the Swiss Water, which was dug, made and filled with water by the Swiss Guards in forty-eight hours to please the whim of a French queen. These grounds are especially noted for their great number of handsome fountains, which I was informed cost the government 10,000 francs, $2,000, every time they are played, which, however, only occurs on the first Sunday of each month, when the Parisians turn out in great numbers. Limited time prevents me from giving a more detailed description of this paradise.

After Versailles my next visit was to the seed establishment and trial grounds of Vilmorin & Co., at Verrierres, about twenty miles from Paris. Here also, is the residence of the Vilmorin family, a stately old mansion surrounded by large woods and well kept grounds. After partaking of a most sumptuous and enjoyable breakfast with the Vilmorin family we started on an inspecting tour of their trial grounds and warehouses. Most notable in the trial grounds were tests of every variety of aster, petunia, phlox, verbena, sweet pea, and every other species as far as the eye could reach. Gladioli form quite a large percentage of the grounds, where every known variety is on test. Many of the points which were explained to me by Mr. Vilmorin were of great value, making my trip most pleasurable and profitable.

Leaving Verrierres I accompanied Mr. Vilmorin to the Horticultural Exhibition which was being held in Paris. The display was principally made up of asters, in great quantities, and other annuals. Strange to say, the gardeners and florists have the same familiar healthy appearance as they have in Philadelphia, and I almost felt that I was at one of our own exhibitions here in Horticultural Hall. The only difference was that they all spoke the French language, and that I could not understand or speak it at all.

After leaving Paris we sailed for home, and after a pleasant voyage I was delighted to find myself once more with my good friends in the City of Brotherly Love. The only unpleasant feature about my trip was the request from the chairman of your essay committee that I should prepare and read a paper before you and tell you what I saw across the water, a task of which I question my capability. Of course, I find since my return home that there was more which I did not see than that I did see and if this paper is not all that you expected to hear, and has not interested you, I fix the blame on Mr. Watson, who is entirely responsible for all deficiencies.

CHRYSANTHEMUMS.

SEEDLING CHRYSANTHEMUMS.

As the time is fast approaching when those interested will wish to exhibit their seedlings before the committees of the Chrysanthemum Society of America a few words regarding the rules and regulations governing these exhibits may not be amiss.

A fee of $2 is charged for each variety entered. This entry fee entitles the exhibitor to submit the variety before as many committees as he may desire. Six blooms are required of each variety shown and to be eligible must be such as has been tested at least two years. No member of a committee shall show his blooms before the committee of which he is a member. Varieties scoring eighty-five points are entitled to the society's first-class certificate. Foreign varieties may also be entered and certificated under the same conditions. All numbered seedlings entered must also be provided with a name. In case the variety does not score enough to secure a certificate, and the exhibitor desires to apply this name to some other variety in the future, it will appear in all reports under number if the secretary be so requested.



CHRYSANTHEMUM THORNDEN FIRST WEEK OF OCTOBER.

As each year there are new organizations holding their first exhibitions, and as many of these are anxious to adopt scales for judging various classes, it would seem wise that one scale be used universally. To this end I give those adopted by the Chrysanthemum Society of America, which seem to be adequate.

Scale A.—Scale of points for bush plants and standards; single specimen or any number up to six, in an exhibition where the class under consideration does not form the chief feature in the exhibition hall:

Equality of size and form of plant	40
Size of bloom	30
Foliage	30

Scale B.—Scale of points for bush plants; exhibits of more than six or for any number of specimen plants in an exhibition where the class under consideration forms the chief feature in the exhibition hall:

Equality of size and form of plant	25
Size of bloom	20
Foliage	25
General effect	30

Scale C.—Scale of points for plants grown to single stem and one bloom; a height of not over three feet is recommended for plants in this class, and pots not over six inches in diameter:

Compact sturdy growth	40
Foliage	30
Size of bloom	30

Scale D.—Scale of points for specimen blooms:

Color	25
Form	25
Fullness	15
Stem	10
Petalage	10
Size	15

In the Chrysanthemum Society's cup contest, which occurs in Philadelphia on October 18, the blooms should be addressed to David Rust, Horticultural Hall, instead of Edwin Lonsdale as formerly announced.

ELMER D. SMITH, Sec'y.

NOTES ON VARIETIES.

Thornden (new).—Plants from 2-inch pot stock, planted June 20, are now four and one-half feet high. A few crown buds taken September 15. Terminals just taken, October 1.

Autumn Glory (new).—Stock and date of planting same as foregoing, height, four and one-half feet, only one plant making crown (the one to extreme right in the cut). This was small when taken September 20, but has made fair progress. Most of the terminals will be ready this week. Rather doubtful if our blooms will be ready for November 8 to 12 shows, although it may develop much faster than many other kinds.

Modesto.—Stock and date of planting same, height, four and one-half feet. Terminal buds taken September 20 to 25. The earliest buds will probably be perfected by November 6, although better finished blooms may be had the following week.

Miss Minnie Wanamaker.—Stock and date of planting same, height, three and one-half feet. Crown buds taken September 10 to 15 will be ready last of present month. An old variety, but still very desirable. ELMER D. SMITH.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The committees judging new seedlings will be in session October 8, 15, 22, 29, November 5, 12, 19, and 26. Exhibitors should make their entries (for which a fee of $2 is charged for each variety entered) to the secretary not later than the Tuesday of the week the blooms are to be shown. Express charges prepaid and forwarded to any of the following addresses, exhibits will receive careful consideration.

Boston, Mass., A. H. Fewkes, Horticultural Hall, Tremont street.

New York, N. Y., E. Dailledouze, care of New York Cut Flower Co, 119 West Twenty-third street.

Philadelphia, Pa., A. B Cartledge, 1514 Chestnut street.

Cincinnati, O., R. Witterstaetter, care of Cincinnati Cut Flower Company, corner Fourth and Walnut streets.

Chicago, Ill., C. W. Johnson, care of Illinois Cut Flower Co., 51 Wabash avenue.



CHRYSANTHEMUM AUTUMN GLORY FIRST WEEK OF OCTOBER.

Coming Exhibitions.

[*Secretaries are requested to supply any omissions from this list.*]

BOSTON, Nov. 8-11. Chrysanthemum show, Massachusetts Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

BROCKTON, Mass., Nov. 16-18. Chrysanthemum show, Florists' and Gardeners' Club. Walter E. Baker, Sec'y.

BUFFALO, N. Y., Nov. 9-11.—Chrysanthemum show, Buffalo Florists' Club. Wm. Legg, Sec'y, 1440 Delaware Ave.

CHICAGO, Nov. 8-12. Chrysanthemum show, Hort. Society of Chicago. Willis N. Rudd, Ass't Sec'y, Room 202, 185 Dearborn St.

ELMIRA, N. Y., Nov. 1-2. Chrysanthemum show, Elmira Hort. Society. R. R. Stockdale, Sec'y.

GERMANTOWN, Pa., Nov. 7. Autumn exhibition, Germantown Hort. Society.

HARTFORD, CONN., Nov. 8-10. Chrysanthemum show, Connecticut Hort. Society. C. M. Rodgers, Sec'y, Beacon St., Hartford.

INDIANAPOLIS, Nov. 8-12. Chrysanthemum show, State Florists' Association of Indiana. R. A. McKeand, Sec'y, Garfield Park, Indianapolis, Ind.

MORRISTOWN, N. J., Nov. 1-2. Annual Exhibition, Morris County Gardeners' and Florists' Society. C. H. Atkins, Sec'y, Madison, N. J.

NEW BEDFORD, Mass., Nov. 3-5. Annual exhibition New Bedford Gardeners' and Florists' Club. Peter Murray, Sec'y, Box 104 Fairhaven, Mass.

NEWPORT, R. I., Nov, 2-4. Chrysanthemum show, Newport Hort. Society. J. J. Butler, Sec'y, P. O. Box 213.

NEW YORK, SEPT. 26-OCT. 8. Sixty-seventh fair, American Institute. Dr. F. M. Hexamer, 52 Lafayette Place, Chairman Committee on Agriculture and Horticulture.

NEW YORK, SEPT. 26-OCT. 1. Annual Exhibition American Dahlia Society, auspices of American Institute.

PHILADELPHIA, OCT. 18. Chrysanthemum show, contest for the C. S. A. cup, auspices of Pennsylvania Hort. Society. David Rust, Sec'y, Horticultural Hall, Broad St. below Locust.

PHILADELPHIA, Nov. 8-12. Annual exhibition, Pennsylvania Hort. Society, David Rust, Sec'y, Horticultural Hall, Broad St. below Locust.

POUGHKEEPSIE, N. Y., Nov. 2-4. Chrysanthemum show, Duchess County Hort. Society. Arthur A. Loughren, Sec'y.

PROVIDENCE, R. I., Nov. 9-11. Chrysanthemum show, Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St., room 23.

ST. LOUIS, Nov. 8-12. Chrysanthemum show, St. Louis Florists' Club. Emil Schray, Sec'y, 4101 Pennsylvania Ave.

SYRACUSE, N. Y., Nov. 15-17. Chrysanthemum show, Central New York Hort. Society. D. Campbell, Sec'y.

TORONTO, Nov. 9-12. Chrysanthemum show, Toronto Gardeners' and Florists' Association. E. H. Carter, Sec'y, Riverside Park, Toronto.

WACO, TEXAS, Nov. 10-12. Chrysanthemum show, Texas State Floral Society. Mrs. Louis Crow, Sec'y, Waco, Texas.

WORCESTER, Mass., Nov. 8-9. Chrysanthemum show, Worcester, County Hort. Society. Adin A. Hixon, Sec'y, Horticultural Hall, 18 Front St.

Violets at Poughkeepsie.

Salvias, marigolds and zinnias are at the height of their autumn splendor in old Poughkeepsie and the roadsides are all purple and white with wild asters, but for the eye of the New York wholesaler or the Poughkeepsie grower there is here one flower only, and the broad expanse of the Hudson River with its picturesque highlands on the further side, the dark shadows of the Ulster mountains beyond, the wonderful railroad bridge up in midair, and the ever present allurements of Vassar College, which are so potent an attraction for the visitor, have no charms for the local grower. His eye is fixed intently with almost microscopic scrutiny on the little mounds of green foliage that extend in symmetrical rows from end to end of his greenhouses, watching for the wee blue specks that are the precursors of the coming harvest which is to fill his pocket with dollars and afford the wherewithall to erect a couple more houses next year. "Have you begun to send down yet?" takes the place, at this season, of the customary "good morning" in Poughkeepsie, and the violet man reaches supreme happiness when he can reply in an unconcerned sort of way, "Yes, I sent down a bunch or

two Monday." The only man in the community who has been induced to take his eyes off his plants other than for sleep and meals is Thurman Flegler, who stopped long enough to get married on September 26. He married Miss Devine, who, had she been anything less than divine, never could have enticed a Poughkeepsie violet grower away from his plants in late September.

Poughkeepsie violets are the best in the world. They can be found, all through the season, with Young, Sheridan, Horan, Ford and other New York wholesalers who advertise regularly in the AMERICAN FLORIST. Last winter there were thirty-two Poughkeepsie shippers of this fragrant commodity; new ones are continually springing up, and at the present rate of development a "violet train" daily from Poughkeepsie to the metropolis suggests itself as a possibility. Among the larger growers are W. G. Saltford with 17,000 plants, B. Willig 22,000, Thos. Devoy & Son 14,000, and across the river in the Highland district J. W. Feeter 12,000 and M. J. Moore 19,000 The plants in the different establishments vary in size and character, naturally, and there is much local rivalry for the prestige of being the acknowledged "Violet King," a distinction which is apt to shift, according to circumstances, from year to year. Those who have the largest plants to-day are not yet sure of the permanency of their lead, for it is conceded that if a long spell of warm weather should now come the smaller plants will gain an advantage, but if it should be cold the man with the big plants will benefit.

One looks in vain here for a solitary specimen of Lady Campbell. Marie Louise is good enough for Poughkeepsie growers. The kind of plant most approved is the single crown plant with dark, well hardened foliage, the crown "open" and carried well above the soil. The stock is considered by good judges to look better this year than ever before. The method of propagating most generally in use here is to take the young runners in April, which, after being rooted in sand, are shifted to flats or 2-inch pots and kept either in the house or frame until planting time, which is anywhere from June to August, the earlier the better. There are a few growers, such as Fricker and Willig, who plant their young stock in the field during summer and with satisfactory results, but most of the growers believe that they are less liable to disease if kept under glass all the time. As to benches or solid beds there seems little preference, the main difference being that the beds require less water. The houses are almost invariably constructed with full side ventilation. The soil is a gravelly loam not particularly rich, and, to the casual observer at least, the most promising stock seems to be in those establishments where the soil is lightest and which are kept "on the dry side." Some growers use a mulch of old, finely broken horse manure, one benefit of which is to keep the blooms off the soil. All the houses have been thickly coated with white wash, but it is now about time to remove this shading and let the sun get at the plants.

Among the most troublesome enemies of the violet grower is the cut worm. This is the larva of the "June bug" and is introduced into the houses with the sod used to fill the benches. It is very destructive and in some places hundreds of dead plants have attested its ravages. Hand picking seems to be the only resort to eradicate it. Mr. Devoy suggests that all soil be piled up outside in fall and allowed to remain through the winter; the worms will work down out of it into the ground. The "gall fly" has been troubling some growers. This insect lays its eggs in the heart of the plant in late summer, and the minute white worms that result eat the young leaves and buds. Black fly is another dangerous pest, the remedy for which is regular fumigation or dusting with tobacco dust.

During the past season new violet houses have been built as follows: Feeter, one house 26x161; Willig, two houses, each 18x204; Devoy, one house 20x126. Mr. Willig is comparatively a new comer, this being his third season, but he is a hustler. Feeter's "slope" house, illustrated in the AMERICAN FLORIST last winter, has given satisfactory results. George Saltford, Jr., is in charge of this place. Isaac Fricker is one of the old-school Albany gardeners, a contemporary of Grey, Menand, Bennett and Dirwanger. His establishment is devoted to a general variety of plants, all of which are in excellent shape. He says that Paul Gindra has the finest violets in Poughkeepsie, and adds, "I'm as glad as if they were my own." One house in M. J. Lynch's big establishment is devoted to violets, and they are as good as the best. Mr. Lynch is Poughkeepsie's progressive retail florist, and many acres of valuable building lots attest his industry and prudence during his many years' residence here.



LUTHER BURBANK.

Two Valuable Plants for Jardinieres.

Ophiopogon Jaburan folius aureus variegatus and Acorus gramineus, the latter in the white as well as the yellow variegated form, are excellent plants for jardiniere work. Both combine with compactness a graceful habit, and if properly cultivated the markings of the leaves are decidedly pronounced. The fact that they cover themselves underneath renders them preferable to most ferns. So far as their hardiness is concerned, they rank with the aspidistra. They are, furthermore, of great value on account of the adaptability of their leaves to all kinds of floral work. Their culture is very simple, although the ophiopogon is of rather slow growth.—*Die Bindekunst.*

A Successful Hybridizer.

Among the leaders in his profession stands the name of Luther Burbank, one of the most successful hybridizers of plants which this county has yet produced. He was born March 7, 1849, at Lancaster, Mass. His father was a farmer and his mother, a member of the Burpee family, a branch of which conducts at Philadelphia one of our largest seed houses, survives at the age of eighty-five years. Young Burbank's education was considered liberal at his eighteenth year and his first employment was in the Ames plow works at Worcester, Mass, of which his uncle was superintendent for half a century. But service in a noisy factory was not compatible with his love of nature and in 1870 he purchased a small tract of land at Lunenburg, Mass. Here began Mr. Burbank's career as a horticulturist and his first work for the science was consummated in 1873, when he originated the Burbank potato. Finding the climate of New England unsuited to the requirements of the experimental work in which he found absorbing interest, he removed, in 1875, to Santa Rosa, Cal., where to-day he has extensive grounds and a large collection of lilies and many other plants, shrubs and trees.

Always an indefatigable worker, Mr. Burbank has run the whole gamut of horticultural experiment and has many times duplicated his first success with the potato. He grew more than a million seedlings to establish a new race of gladiolus, and the canna, iris, calla and the rose have also responded to the masterly touch of this adept hybridizer. Raspberries, blackberries, walnuts, quinces, prunes and many other fruits have been developed to man's greater good at his garden of the Pacific. Beside his greenhouses and ten acres of home grounds on Petaluma avenue, Santa Rosa, he has a farm a few miles distant, at Sebastopol, where eighteen acres are given over to seedlings and thirty acres devoted to farm experiments. So fully is Mr. Burbank's time occupied by his studies, tests and correspondence and so seriously has he been annoyed by the depredations of those who seek personal profit as a result of his successes that he refuses to admit the public to his gardens except in the month of June, which is reception period for intending purchasers. Then those who anticipate a view of uniform rows of beautiful plants or healthy shrubs and vegetables are sadly disappointed, for they find, instead, chaos, a veritable horticultural workshop.

A story which Mr. Burbank delights in telling is that of a member of one of the largest floral firms in the country who had traveled over 3,000 miles to see the workings of this hive where man and nature join in industry. On the way from the station the visitor overtook an old gentleman who had worked many years for Mr. Burbank and inquired of him if he knew Burbank. "Of course I do," was the reply. "He used to have a big nursery, but sold it out, and now he raises acres and acres of stuff, and every summer has 'em all dug up and burned. I wouldn't give a hundred and fifty dollars for the whole kerboodle." The gentleman from the Atlantic stored away this gratuitous advice, but before the day had passed he selected from Mr. Burbank's stock a half dozen plants for which he paid $6,000.

Whenever humanity calls, Mr. Burbank stands ready to respond and it may be said for his work that his best introductions are yet to come, at least that is his

opinion. It requires much time and close attention to properly segregate, classify, test and propagate, and after having secured the desired improvement the work increases in value and results in geometrical ratio as time progresses, one life affording only a good beginning for others to build upon.

Erianthus Ravennae.

Its specific name is identical with the town of Ravenna, situated on the Italian coast of the Adriatic Sea, from whence it probably was distributed; at any rate it is a native of southern Europe, which will tell us that a little straw or leaves as protection during the winter months is desirable, although not exactly necessary if it is planted in a sheltered position. It should be given the full benefit of the sun and thrives best in a well-manured sandy or gravelly bottom with plenty of moisture. Planted at the margin of the shrubbery, in the perennial border or edging the lily ponds, its bold form is pleasing, and especially at this time do the feathery plumes, carried on strong stalks and waving slightly in the breeze, give life to the surrounding landscape.

Compared with other ornamental grasses, it is outranked only by the pampas grass, Gynerium argenteum, but unfortunately the latter is not hardy in this latitude. Under good cultivation, Erianthus Ravennæ will attain a height of ten feet or more. It comes into bloom the first week in September, which is quite an advantage, as most of our ornamental grasses do not produce their feathery blooms before late in the season, to be enjoyed for only a short time. The illustration shows a clump of twelve plants put out a year ago.

Illinois. JAS. JENSEN.

CARNATIONS.

CULTURAL NOTES.

October 8.—A conversation as to soils and other kindred matters was held this week between four prominent growers of carnations and as such conversations generally bring out some good points I give the substance of this one here.

For field grown carnations a soil that will admit of the plants being taken up with a small clump attached to the roots was considered decidedly the best in which to plant out stock. A great mistake made by many growers is in not manuring the ground heavily enough to produce good plants in the field, especially in a season of drought such as was experienced in many sections this year.

A patch of carnations that came through the past summer in fairly good shape was planted as follows: A furrow was drawn eight inches deep; into this was put about two inches of well rotted manure and the soil was then turned back and the carnations planted directly over the fertilizer. In this manner the plants started to grow nicely before they reached the manure and when the roots did reach it they were far enough advanced to make good use of the material at hand. This was, of course, a considerable job but the returns more than paid for the extra work and go to show that there is nothing like manure to help a plant over a dry season.

In part of another patch a mixture of lime and wood ashes was used and the results showed about twenty per cent in favor of the treatment of ashes and lime over those not so treated.

Neither of the four conversationalists could understand how any one could recommend the planting of carnations in the houses from the field without protecting them from the rays of the sun for a short time, as it has been their experience that plants so handled will always receive a decided check and often one fatal to their growth. To plant carnations in a house with dry soil on the benches was also condemned, no matter if the benches were thoroughly soaked immediately after planting.

It was also conceded that soil might be made too rich for carnations coming in from the field, that it would be better to add a little extra manure after the plants had become well established, and that later in the season they could stand much more stimulant than is usually given them. Carnations housed during the summer or prior to September 1, ought to be in shape now for additional fertilizer unless they show by their growth that they really do not need it.

One of these four growers uses a stake that comes above ground about six inches; to this he ties his plants and thus keeps them from sagging. As soon as they begin to throw up flowering shoots he takes three stakes for a row three feet long and puts one at each end and one in the middle. Around these stakes he forms a loop that holds the stems erect and finds this a quick and cheap method of tying and a very convenient one for the pulling of flowers or cuttings. These last stakes are some thirty inches above ground and keep the tallest varieties in good shape. One of the other growers uses a wire stake which costs him two cents each. He claims that the first really good flower pays for the stake, that they are easily adjusted and are good for at least ten years. It was, however, considered best to have the two cents first as it sometimes happens that the two cent flower does not materialize.

Varieties were discussed from a Septem-



ERIANTHUS RAVENNÆ.

ber basis of view and it was the consensus of opinion that Flora Hill has all of the points necessary to a good paying white. Gold Nugget, if it follows up its promises, seems likely to take the same place among the yellows. Jubilee was considered a grand scarlet but there is room for a scarlet Flora Hill. It was a cause of surprise that the good points of Triumph were not recognized by the trade earlier than they were. With one of the growers Albertini propagated this month for next winter's bloom was considered a very profitable and satisfactory sort. Kohinoor, as it was grown around Chicago the past summer, was considered a fine variety for summer bloom on account of its size, good make up and the fact that it was a veritable snow storm of bloom.

Three out of these four growers are trying their hand on seedlings and this seems to be the proportion the whole way through the trade. It was hinted that eventually we will all be growing our own seedlings and that the introduction of seedling carnations will become overdone. ALBERT M. HERR.

THE CARNATION IN CUT FLOWER WORK.

For dinners this flower has been but sparingly used, as its colors do not work effectively under artificial light, but for luncheons nothing is more satisfactory than a plateau of carnations, all colors intermingled, if you please, with spikes of their own foliage among them. Arranged in this way, they find many admirers, for the colors and form are such as nature delights to throw together in the wild flowers with the utmost freedom, and the cultured eye finds nothing to offend, a truth which applies to no other florists' flower as it does to the carnation.

If the decorator wishes to make a carnation garland over a door or mantel, smilax may be used as a base. The flowers, long stems and all, are attached at irregular intervals of eight or ten inches, in loose, dainty bunches of twelve or fifteen flowers, a single wire being used to fasten each handful; but in such work use only one color. If the garland is around a canopy, have the carnations of the same color as the other flowers used in the canopy. Whether for plateaus, baskets, festoons or vases, carnations should never be wired. When used in vases, on mantel or canopy, never mix them with other flowers. A vase of American Beauty roses, one of carnations and one of violets, all on one mantel, is a violation of one of the first principles of art. Concentration of effect is half the battle and it is not the quantity of flowers used, but the manner of their arrangement that makes your work either effective or otherwise.

People take kindly to the free use of the carnation in decorative work. I have often noticed how, in the drawing room, they will drift up to the mantel and take a carnation for a boutonniere or hand it to a companion as a sentimental sort of souvenir. The simple, almost juvenile, character of the carnation makes it very popular with debutantes and, in November and December especially, many carnation bunches are called for. Such bunches should be neither large nor formal and, as a rule, are best confined to one color. Two or three shades of pink may be used in one bunch, however, and it is permissible to mix the splashed or variegated varieties, such as Maud Dean and Eldorado, without regard to color. If you have a bouquet of maroon carnations, its heaviness will be relieved and its effect heightened if, after it is finished, you just add, as if dropped there, five or six big golden yellow fellows. We never make bouquets of white carnations.

It is dangerous to mix carnations in bunches with other flowers. Mignonette, which is a flower of simple character, may be combined with them without giving offence, but roses never. Except in very elaborate bunches, it is well to dispense with ribbon in connection with carnation work, and when it is used a neutral shade of Nile green should be the limit as regards color.

The original impulse of the use of carnations for hand bunches and other work was undoubtedly one of economy, but of late years, as the quality of the blooms offered improved and the prices advanced accordingly, extravagant buyers have come to recognize that they are beautiful and desirable, and thus the carnation has now emerged from its low degree into the full tide of popularity as a flower of the first rank, and usually divides with the rose the honor of gracing the most elaborate and exclusive functions.

Carnations are very acceptable and appropriate for ladies' wear. They do not soil the clothing nor damage delicate fabrics, as roses are apt to do with their thorns, and they can be taken off at home and kept for a day or two thereafter. For a coat flower nothing can compare, it being the only thing which will permit the wearing of a top coat with the assurance that it will look sober late in the evening. For many years European travelers have been extolling the huge single carnation of "dear old London" and asking why we cannot supply them. Well! At last we can, and it is to the enterprising grower that we are indebted.

W. A. BRIDGEMAN.

AMONG THE GROWERS.

A. J. Tharp, of Bedford Station, N. Y., has a cerise carnation seedling which he has named Alice Ball Pinkus, of which Portia is one of the parents. A handsome silver vase suitably inscribed was presented to Mr. Tharp by the family of the young lady for whom the flower was named.

Thos. Devoy & Son, Poughkeepsie, N. Y., are greatly pleased with the variety Louis C. Haettel as an outdoor summer bloomer. The flowers are white flushed with pink and the petals are deeply serrated. Long graceful stems, abundant bloom and delightful fragrance are among its good points.

Dailledouze Bros., Flatbush, N. Y., have a large list of novelties and seedlings on trial. "It takes a good many points to make a good carnation now" is the sentiment expressed by Henry Dailledouze as he shows the visitor about. A cerise seedling now in the fourth year, tall and graceful in habit, a large and handsome flower, looks like a winner provided the slight tendency to bleach on the edges of the petals in bright sunlight is overcome. A white seedling from McGowan has wiry stems and good formed flowers, resembling Nivea, but the blooms are hardly up to the standard of size now required. Among the recent introductions and novelties are many that show up well. Mars is a great scarlet and throws up long straight stems. Whitcomb Riley is of the Lily Dean type. It seems to be a good keeper, makes elegant plants and the stem and fragrance are all that could be desired. Painted Lady, a bright cerise with strong growth and handsome round flower, suffers somewhat in appearance from the slightly incurving edges of the petals, which shows the lighter colored reverse. Cerise Queen is admirable for side benches on account of its dwarf habit. It is Tidal Wave color intensified. America is a grand scarlet, strong growth and big stem. Frances Joost is making a nice growth but the flowers are not yet up to the standard of those exhibited later in the season last year. The same is true of Mrs. Northway Evelina looks rather scrubby, also, up to date. White Cloud is also behindhand in blooming but has made a fine growth Mayor Pingree is better than it was last year. Flora Hill is the carnation of carnations for early crops as seen at Dailledouze's. Victor is also grand at this date. Triumph is one of the rankest of growers; flowers large and color close to Tidal Wave.

New York.

A FULL MARKET.—TRADE INTERMITTENTLY GOOD.—WARM WEATHER AFFECTS THE ROSES.—CARNATIONS HAVE A GOOD PROSPECT.—VIOLETS COMING IN REGULARLY.—RETAILERS PAYING CASH.—PERSONAL NOTES.

Trade during the past week has been fair, all things considered, but present indications do not favor its continuance. The market is abundantly supplied with roses, quite a few chrysanthemums, a daily increasing number of violets most of them very poor and some carnations. Owing to the warm weather prevailing roses are coming in very poor shape, being all open and soft. This was the case especially on Monday morning of this week. As to the demand for roses, buyers favor Beauties because of the show they make and the reasonable figures at which they may be had. Of Bridesmaids and Brides, there is any quantity of them but a very small proportion can be classed as good stock. The Brides are doing a little better than the Maids just at present. Only the best of the latter bring anything quotable in the way of price and the balance falls into the hands of the street dealers. Meteors are selling ahead of white or pink roses.

Carnations continue to do well, when of presentable quality, and there is every prospect that they will enjoy as great a popularity as they did last season. The trouble at present is that they are generally poor in quality. The exceptions bring good figures. Some Flora Hills and Scotts are excellent, command a price and are eagerly sought after. Lily of the valley moves slowly and cattleyas are getting more plentiful.

Some of the retail stores have started in by paying cash. The innovation, if persisted in should be a good thing for all concerned.

The date of the meeting of the New York Florists' Club at which Mr. Hallock is to talk is October 10th not 18th as printed last week.

Mr. A. Wadley has a very large contract to furnish all the plant decorations for L. Sherry's new establishment.

Rudolph John, formerly of Nostrand avenue, Brooklyn, will open a new store at 109 W. Forty-second street.

Joseph Falardeau, formerly with "Edouard" is about to open a store at Broadway and Thirty-eighth street.

Visitors in town: Jackson Dawson, Boston; H. G. Eyres, Albany; J. F. Sullivan, Detroit, Mich., the latter chaperoned by H. A. Siebrecht.

LOUISVILLE, KY.—John Bohrman has recovered from his recent severe illness. Coenen & Bohrman are completing a fine palm house.

Philadelphia.

HOT WEATHER PLAYS HOB WITH KEEPING QUALITIES OF STOCK.—FLOWERS ARE IMPROVING.—FLORA HILL IS THE CARNATION WHICH BRINGS THE FANCY PRICE.—VIOLETS ARE IN.—FLORISTS' CLUB MEETING.—A PICTURE OF THOMAS CARTLEDGE.—PERSONAL AND OTHERWISE.

With the temperature at 82°, we have been anything but comfortable in this Quaker City. Should this state of affairs continue much longer the fakirs will be in their glory and prices, which were taking on a brace, will lean the other way. Scarcely anything keeps in a salable condition for the second day, and many of the pink and white sunflowers carried by the growers were nice rose buds when packed by them early in the morning.

All stock is improving. Beauties are seen with stems from thirty to thirty-six inches in length and for the best of these $2 per dozen is asked. A few of the best teas have sold for $4, but $3 is nearer the price. Carnations are much more plentiful, but do not keep very well and cannot be carried two days as yet. The prevailing figure is $1, although $1.50 is asked for some selected stock and a few nice Flora Hill have sold readily at this price. Quite a few growers seem to have this variety and it is reported to be doing well with all of them. The first double violets, and right fair flowers they were, came on the market through the medium of S. S. Pennock Thursday, September 29, at 50 cents per 100. Singles are poor as yet and bunches of about 100 flowers sell for $1.50 per dozen. A few Lady Fitzwygram are coming in and sell for $1.50 per dozen, but there are no other chrysanthemums in sight as yet.

A very interesting and instructive meeting of the Florists' Club was that of October 4. There was a good attendance and H. E. Michell read a paper on what he saw while abroad, which, together with the bright thoughts that occurred to him as he progressed, gave the members a good idea of all that he saw. His remarks were heartily applauded and he received the thanks of the club. A beautiful crayon picture of the late treasrer, Thomas Cartledge, was presented to the club by President W. K. Harris, who said:

"This club has expressed a desire to have a picture of our late treasurer, Thomas Cartledge, to adorn the walls of this room, and that his portrait might oft prompt us to imitate the life of an honest man, so I have thought it a fitting act to express the love and esteem I have always held towards my long acquainted friend to gratify your desire, and it gives me much pleasure to be able to present this mortal shadow of kindness to you; I say mortal, although this picture may endure for generations, yet in time it must succumb to the elements of destruction, but the many kind acts that made his life a life worth living will not perish, but will live and grow brighter and brighter as time measures their age."

John Westcott received the gift on behalf of the club in a few well chosen remarks, saying that he hoped the bright example Mr. Cartledge had set the community would never be forgotten.

The election of officers was settled by the secretary casting the ballot and President W. K. Harris, Vice-President John Westcott, Secretary Edwin Lonsdale and Treasurer J. W. Colflesh will serve for the ensuing year. The secretary read his report, which shows 163 active, eleven associate and eight honorary members. Three members were lost by death the past year. The treasury was also reported to be in a healthy condition.

The question for the next meeting is "The Coming Carnation Convention." Every member of the club interested in the divine flower is expected to do a lot of thinking and devise plans that will make this the banner convention of the society. Secretary Herr will open the discussion. Mr. A. W. Smith, of Pittsburg, was an interested listener this week.

Henry Dotty was killed September 29 at Magnolia, N. J., by being run down by an express train while crossing the track in a wagon. Deceased was a Frenchman and quite familiar to the store men; a violet salesman for the last ten years, he first sold for Mr. Corbin and later for Mr. Supiot. John Shellum was thrown out of a wagon and painfully, but not seriously injured one day last week. His son was also badly hurt in the same way a month ago and there is now one bay horse, kind and gentle, for sale cheap.

Milton W. Woodruff was married to Miss Juliana Koester last Wednesday evening. Mr. Woodruff is chief clerk at Wm. C. Smith's commission store, 1604 Ludlow street.

Vice-president John Habermehl is now the title, he having been recently elected to this position by the associated bowling clubs of this city. Bowling matters are moving along merrily. A match between the regular and associate members is down for next Wednesday night. We are sorry to see our Buffalo friend is mad; that is, bowling mad, for "Those whom the Gods would destroy they first make mad," and from his present condition it would seem that his bowling talent was doomed to destruction. We would like to wager our "200" Buffalo friends that less than an average of 160 will win next year provided everything is regulation. K.

Boston.

FRUIT AND VEGETABLE SHOW OF THE HORTICULTURAL SOCIETY.—MEETING OF THE GARDENERS' AND FLORISTS' CLUB.—FRUITING SHRUBS AT ARNOLD ARBORETUM.—NOTES ON CURRENT TOPICS.

The annual fruit and vegetable show of the Massachusetts Horticultural Society was held September 29-30. The exhibition was of the usual high degree of excellence throughout. A notable group of plants in one corner of the hall was particularly attractive to the floriculturally inclined visitors. Among them were specimens of Dracæna Godseffiana, Acalypha Godseffiana, a seedling Cattleya Loddigesii × gigas and Watsonia Gardnerii, all exhibited for the first time by Oakes Ames, and for the first three of which silver medals were awarded. Silver medals were also given to George McWilliam for a plant in bloom of seedling Dipiadenia Elsa Whitin and to J. T. Rothwell for a fine specimen of Cypripedium insigne Sanderæ. The annual election of officers of the Society took place on Saturday, October 1, and resulted in the choice of the regularly nominated ticket headed by president F. H. Appleton, being the same list as elected last year with a few minor changes in standing committees.

The Gardeners' and Florists' Club gave a free entertainment in Horticultural Hall on Tuesday evening, October 4, Robert Farquhar being the lecturer, and scenes in and about the Yellowstone Park being his subject. A series of beautiful stereopticon views of the wonderful hot springs, craters, geysers, canons, glass mountains and other natural formations in this great national reservation illustrated the descriptions given by the lecturer which were exceedingly interesting throughout. Previous to the entertainment the regular session of the club was held. The only business of importance transacted was the appointment of Messrs. Westwood, Finlayson and Wheeler as a committee to nominate officers for 1899.

The Arnold Arboretum has been brilliant during the past month with the display of ornamental fruiting shrubs. Among those most unfamiliar, yet most beautiful, are Cratagus pyracantha Lelandii, which is weighted down with heavy masses of bright orange vermilion fruit, and Symplocos cratagoides with an abundance of lovely porcelain blue berries, the unusual color of which is always sure to attract attention.

Welch Bros. have secured additional space on the floor above that which they have been occupying, thus affording needed facilities for a convenient office and a show room for sheaves and other supplies, which they have connected with their main floor by a new stairway. They anticipate a heavy business this season.

D. Zirngiebel has been kept busy outside of his regular florist business, building, remodeling and heating greenhouses in the neighboring towns. More work of this character has been offered him this season than he could undertake.

The stockholders of the Co-operative Flower Growers' Association held their annual meeting and dinner on Saturday, October 1. The old board of officers and directors of last year was re-elected.

Begonia Gloire de Lorraine does not import well. A recent invoice for W. W. Edgar came in bad shape. Mr. Edgar has, however, a very large stock of home propagated plants that are in excellent condition.

N. F. McCarthy has added a phonograph to his office equipment. He expects to have it in good training soon.

Chas. Harvey, of Highlandville, was married to a young lady of Rutland, Mass., on Wednesday.

John Galvin accompanied the Ancients and Honorables on their tour to Quebec on October 3.

Visiting Boston: Martin Reukauf, representing Bayersdorfer & Co., Philadelphia; Robt. Patterson, Portsmouth, N. H.

Chicago.

A WEEK OF PECULIAR CONDITIONS.—BUSINESS GOOD, BAD AND INDIFFERENT—LIKEWISE STOCK.—THE DELUGE OF CARNATIONS.—DAHLIAS IN ANY QUANTITY.—AMERICAN BEAUTIES ARE SCARCE.—CURRENT HAPPENINGS.

This has been a week of contradictions. To begin with, the weather has run the scale from summer temperature almost to the frost mark and, of course, the change has produced its accustomed effects. Early in the week there was a considerable over-supply, particularly in carnations, but in the past few days the cut has been considerably restricted. The qualities of stock have been as varied as its quantity and the volume of trade has shifted here and there, some dealers reporting little doing while others have had all the custom they could supply.

Good flowers have brought good prices; particularly is this true of American Beauties, of which the cut seems inadequate to meet the call. Of course roses were rather too widely open during the hot days but toward the end of the week the blooms were as good as could be desired at the price. The deluge of carna-

tions gives an indication of what may happen this winter, but here, also, there is a difference of opinion, as many growers believe there will be no over-supply or cheap prices for good flowers after frost cuts off the dahlia crop, which is just now meeting all demands for cheap flowers.

Chrysanthemums have been received in increasing numbers this week and Lady Fitzwygram has been reinforced by Merula and Mrs. H. Robinson. The blooms were in fair demand, although the qualities were not what they will be in another few days.

The funeral of the late Burt Eddy took place Saturday, October 1, the interment being at Mount Greenwood cemetery. The pall bearers were Randall Reed, A. L. Vaughan, Stephen Reddick, Alex. Henderson, Henry Bruns and John Degnan. There were numerous floral offerings, those from friends of the deceased in the trade including a wreath of white roses from E. V. Hallock and August Rhotert, New York; a loose bunch of Bridesmaid roses from J. W. S. Butt, Portsmouth, Va.; crescent wreath of galax and cycas leaves from employes of Vaughan's Seed Store, Chicago; wreath of mixed flowers from Vaughan, McKeller & Winterson, Chicago; and a wreath of pink roses from the employes of Vaughan's Seed Store, New York.

Walter Kreitling, John C. Schubert and Gus Lange represented the florists at the Omaha exposition Chicago Day. Mr. Kreitling had charge of the Board of Trade decorations on the Chicago, Milwaukee and St. Paul train.

The Hinsdale Rose Company, of which A. G. Prince is secretary, is re-piping and re-laying the glass at its large establishment and is installing a new 125 horse-power boiler. The chimney has been rebuilt and its top is now ninety feet in the air.

It is no wonder that growers have no complaint to make when one firm of their number is able to show receipts for last week sixty-five per cent in excess of the same week last year and with only a comparatively small increase in their glass.

John Weyland, of Evanston, was awakened at 2 o'clock Tuesday morning by the sound of crashing glass and found three men, presumably intoxicated, smashing the roof of his house with fence pickets. They fled before the police arrived.

For almost an hour Tuesday evening Amelia Larsen was imprisoned on the second floor of W. W. Barnard & Co.'s seed store. A hook and ladder company was preparing to effect a rescue when employes arrived with keys.

Mrs. J. Austin Shaw has been spending this week in Chicago with Mr. Shaw who is in charge of Siebrecht & Son's auction at 114 Wabash avenue.

Some of the finest Wm. Scott and Lizzie McGowan carnations which have come to this market during the past week have been shipped in by E. E. Boynton, of Sycamore.

Charles Schafer has been quite ill since the first of August but has now so far recovered as to be able to attend to business.

A. L. Randall has put in a full line of florists' supplies at his commission house at 4 Washington street.

Violets are in market every day but in very restricted quantities. They are small in size but the fragrance is good.

Horatio N. May, a Lincoln Park commissioner, died at Badnenheim, Germany, on October 1.

Visited Chicago: Mrs. F. X. Millman and daughter, Mrs. Beall, of Cumberland, Md.; Fred. J. King, Ottawa, Ill.; Thos. Archer, St. Joseph Mich.; W. G. Berterman, Indianapolis, enroute to California; J. A. Wilson, Milwaukee; Frank Stuppy, St. Joseph, Mo.; W. A. Reiman, Vincennes, Ind.

Baltimore.

COOL WEATHER CAUSES A STIR.—SHORT SUPPLY OF GOOD BLOOMS.—RETAILERS HAVE MADE IMPROVEMENTS.—NO CHRYSANTHEMUM SHOW THIS YEAR.—CLUB MATTERS.

Baltimore is now enjoying cool weather, giving business men and business in general a very decided feeling of activity, though things in the florists' line are yet far from brisk. There is little going on in the social world. The recent visit, however, of the English cricketers to the Catonsville Country Club, and the entertainments in their honor, caused a slight stir this week among the retailers.

The exceedingly hot weather of early September caused the quality of stock to fall below the average but now qualities are improving again, although good blooms are still scarce and unequal to the demand. Beauties are especially scarce, while there is a continuous demand for Bridesmaids and Meteors and also for carnations, which are now coming in. There has been an unusual demand for dahlias this season, and some very beautiful varieties are being shipped to our wholesale houses.

One of the good results of the recent inactivity in business was the opportunity to clean up and renovate the retail stores, of which several took advantage, notably W. J. Halliday and Sam'l Feast & Sons, who have made some much needed improvements and are now ready for the rush of winter trade. E. A. Seidewitz has enlarged his store and added largely to his bulb department. H. Bauer is now putting a new roof to one of his greenhouses which was destroyed by hail.

The florists of Baltimore have decided not to have a chrysanthemum show this year, as the public do not appreciate their efforts. The show of two years ago was one of the best, but a financial failure, and the treasury of the club was taxed severely to make up the deficiency caused by the lack of attendance. 'Tis a pity, too, for what is more beautiful than the gorgeous blooms of the chrysanthemum? But everything must have its day. Now it is the carnation which holds "fashion's fickle fancy" for a time, a flower well worthy of all that can be said or done for it. The club is seriously considering the advisability of holding a carnation show.

The Gardeners' Club held its bi-monthly meeting on September 26, with only a small number present. Vice-president Wagner very capably filled the chair. R. Vincent, Jr., won for himself the thanks of the club for his large display of dahlias, exhibiting fifty-five different varieties, all worthy of the highest praise. Mr. Pentland suggested a talk upon the Omaha convention and Mr. Vincent was appointed to discuss this subject at the next regular meeting.

John Weidey of the Alaska Union Gold Mining Co., has returned from Union City, Alaska, for a short visit to his native city. He was engaged in the florist business in Baltimore up to a few years ago and was a prominent member of the Gardeners' Club, being one of its founders and at one time an officer.

Holland bulbs are in and are decidedly below the average, many complaints being heard on all sides. A. R. J.

Cleveland.

HOT WEATHER CAUSES STOCK TO BE PLENTIFUL.—CHRYSANTHEMUMS.—PASSING OF THE DAHLIA.—FLORISTS' CLUB ELECTS OFFICERS.—OTHER MATTERS.

The very hot weather we are now having is serving one good purpose for otherwise the supply of flowers would be almost hopelessly short. As it is, hot weather and all, there is a decided scarcity at times and the choice for all practical purposes is limited to roses, carnations and dahlias. Chrysanthemums are seen in very small quantities and do not seem to go very well, a fact not to be wondered at as the only color offered is white, and not very good white at that. However, yellow and pink will soon be in, as several growers have them almost ready to cut. The varieties are Marion Henderson and Glory of the Pacific, and the white to be in at the same time is Mme. Bergemann.

Carnations have been in increased supply, owing largely to the weather, and are fair in quality. The price holds steady at about $1 per hundred. Roses have not changed from quotations of some time ago and are not likely to increase now just on the verge of the chrysanthemum season. A few early violets are to be seen now and again. They are of the single type and are not yet very good nor in sufficient supply to quote a price on.

Dahlias are coming in plentifully and are good in quality with those who are able to grow them at all. Many florists, for the past year or two, as well as this season, have found this usually easy proposition beyond their ability to solve. In some cases they have apparently grown well, but have absolutely refused to set any buds. With others they have rusted, turned yellow, or remained stunted the entire season through. What the trouble is has puzzled the growers considerably, as land, treatment and weather conditions have not been sufficiently changed to account for the difficulty. In most cases, in fact, all the growing conditions were practically unchanged from other and perfectly successful seasons. Nearly every one, however, views the passing of the dahlia with equanimity as they are generally an exceedingly uncertain and usually unsatisfactory flower to grow; indeed, were it not for the fact that they help to fill a vacancy just at this time of the year they would be little lamented if never seen. Some of the best of them that are offered are coming from Storrs & Harrison, and these are really good, having good stems, fine flowers and run in desirable shades.

The Cleveland Florists' Club held its annual election September 26. Adam Graham, who has been president since the club's organization in the fall of 1895, retired to private life and was succeeded by E. H. Cushman, well and favorably known to the trade in general for his connection with the Cushman Gladiolus Company. Vice-presidents for the ensuing year are S. N. Pentecost and James Eadie, also entitled to certificates of merit, and A. H. Graham will endeavor to hold down the secretarial chair for twelve months as the successor of G. A. Tilton. Our highly esteemed friend Herman A. Hart will continue as treasurer for another season.

In town lately were: Paul Berkowitz, of H. Bayersdorfer & Co., and Joseph Rolker, of A. Rolker & Sons. A.

MONROE, N. Y.—The greenhouses of F. Charlton, with contents, have been sold to G. W. Brooks.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.
Subscriptions accepted only from those in the trade.

Advertisements, 10 Cents a Line, Agate $1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

JOHN M. SAMUELS, who was Superintendent of Horticulture at the World's Columbian Exposition, died recently at his home in Clinton, Ky.

A SUBSCRIBER asks whether florists of the Hebrew faith close up their stores in the large cities on holidays observed by the Jews.

IT speaks well for a novelty when florists on seeing one have sufficient faith in it to have it on hand and thus be able to point to it when soliciting orders.

THE prominent place given to flowers and floral decorations in the street fairs and festivals now so frequent in western cities should be of general benefit to floriculture.

RICHARDIA PENTLANDII, the yellow calla, is a bright yellow in color, nearly as bright as the buttercup (Ranunculus acris) of our meadows, with a rich purple blotch at the base of the spathe.

SWAINSONIA has been used to a considerble extent as a bedding plant this season by Superintendent McCarthy at Swan Point Cemetery, Providence. It has grown well and flowered profusely.

IF a leaky tube develops in your return tubular boiler thus early in the season, have it attended to without delay rather than suffer it to continue a source of anxiety the remainder of the season.

CROTONS which have been outdoors all summer should now be given warm quarters, say 65° at night; and after they have outgrown the lifting process, full exposure to sunlight will benefit them.

IF we would have large cyclamen plants for the Christmas after next, we must not delay sowing the seed any longer, and in all cases we must buy the best strain of seed obtainable and not the cheapest.

E. HAENTZE, Fond du Lac, Wis., sends us a choice assortment of dahlia blooms. Unfortunately they are not named, and we are thus unable to properly indicate the best varieties. A pale yellow, light pink and large white cactus are among the most desirable.

WE read of new wholesale establishments and commission houses being started in various cities this year. It has been predicted by some in the past that this peculiar institution in the flower trade was doomed to an early demise but it does not look that way now. To market a perishable product to best advantage calls for qualities very different from those required for the production of the goods. A man may be a model trader with all the shrewdness necessary for a reputation as such but totally unfit to manage a house of carnation plants; and, on the other hand, it should not offend the best rose or carnation grower in the world if he is reminded that perhaps market trading is not his especial vocation and that the most profitable place in which he can spend his time and his energies is right in the greenhouse with his eye on the help and the benches.

THEY tell us that the palm business shows signs of being overdone in some of the big cities. Judging from the past history of the flower trade, this is only what we might expect. This unfortunate disposition to run all to one product or a limited variety of stock seems to be almost universal. Individuality of action is rare and if the venture be profitable, a mighty host swoops down and ruins it. Lucky indeed is he who finds something that he can do with a reasonable certainty that all his neighbors cannot imitate with success. The palm growers can now sympathize with the Bridesmaid growers and the Scott growers, while the American Beauty growers and the erica growers can look on and chuckle in their security.

Express Companies and Revenue Stamps.

Shippers will be interested in the decision of Judge Frazier rendered at Detroit, Mich., in the suit brought by local shippers to compel the American Express Company to pay for revenue stamps required on receipts for packages forwarded by them. Judge Frazier's decision was to the effect that the law requires an express company to give a valid receipt for goods entrusted to them and that a receipt would not be valid without a stamp. Raising the rate for transportation one cent per package as a resort to get the cost of the stamps out of the shipper is, by the judge's ruling equivalent to impeding the action of the law and is therefore illegal. The decision was entirely in favor of the petitioners and a mandamus was ordered compelling the express company to affix the stamps on their receipts. Whether an appeal will be taken is not yet known.

Greenhouse Building.

Helena, Mont.—Charles Horn, carnation house.

Waterloo, Ia.—Williams & Crittenden, extension 20x30.

Brutus, N. Y.—W. M. Howe, one greenhouse.

Wrentham, Mass.—Herman Myers, one commercial house.

E. Fairhaven, Mass.—S. S. Peckham, one house, 20x65.

Norwood, R. I—N. D. Pierce, one commercial house.

Catalogues and Cut Flower Price Lists Received.

James Vick's Sons, Rochester, N. Y., bulbs, plants and seeds; John C. Teas & Son, Carthage, Mo., shrubs; August Rolker & Sons, New York, N. Y., bulbs; Alvin Nursery Co., Alvin, Texas, fruit trees; The Lovett Co., Little Silver, N. J., bulbs; Holton & Hunkel Co., Milwaukee, Wis., bulbs and seeds; Peter Henderson & Co., New York, N. Y., bulbs and seeds; Bredemeier & Drege, Pallanza, Italy, bulbs and plants; Ellis & Pollworth, Milwaukee, Wis., cut flowers; W. A. McFadden, Cincinnati, O., cut flowers; A. G. Prince & Co., Chicago, Ill., cut flowers; Cincinnati Cut Flower Co., Cincinnati, O., cut flowers.

The Late Burt Eddy.

Another bright star has set, never to shine upon earth again. Burt Eddy is dead! He was the peer of all salesmen I ever met. So kind and cheerful, so well informed upon all topics modern or ancient, and so full of humor of the highest type. His visits brought joy. He was not pressing in business, yet his magnetism seldom allowed him to go empty handed. He was always a welcome visitor, and it saddens my heart, when I think that I shall never see his honest countenance nor hear his cheerful voice again. WM. K. HARRIS.

Society of American Florists.

STATE VICE-PRESIDENTS.

Very few of the state delegations at Omaha having taken action regarding their respective official representatives in the Society for the coming year, it now becomes the duty of President Gude to make these appointments. Frequent criticism has been made regarding the efficiency of these officers and the annual report of horticultural happenings in their jurisdiction which is now required of them makes it further necessary that great care be exercised in their selection. With this object in view, advice and recommendations as to who would be regarded as acceptable appointees will be welcomed and are hereby earnestly solicited from any and all members of the S. A. F. in the different states. Address all correspondence on this subject to,

WM. J. STEWART, Secretary,
67 Bromfield street, Boston.

AMERICAN GROWN BULBS.

The hyacinth, tulip, narcissus, candidum and other bulbs from the State of Washington which created such a sensation at the Omaha Convention of the S. A. F. were forwarded, after the close of the Convention, to Washington, D. C., and President Gude took early opportunity to show them to Secretary Wilson and acquaint him with their history. The secretary was greatly interested and expressed his willingness and desire to do anything in his power to aid the Society in its efforts to encourage the development of bulb growing as a home industry. By his advice—the consent of Mr. Gibbs, the grower of the bulbs, having meanwhile been secured—the bulbs were turned over to Mr. Wm. Saunders, the practical horticulturist of the Department of Agriculture, to be grown and flowered and a careful record of results to be made. Mr. Saunder's letter acknowledging receipt of the bulbs was as follows:

"WM. F. GUDE, ESQ., MY DEAR SIR:—The bulbs grown in the State of Washington, which you left here for inspection of this Department, are pronounced to be very good indeed, and if they can be produced at a profit, it will introduce a new industry into this country.

We will grow these bulbs and you may expect a further report upon them when they flower.

Yours respectfully,
(Signed) Wm. Saunders, Horticulturist, etc."

WM. J. STEWART, Sec'y.

The Dutch Horticulturists.

At the August meeting of the Dutch Horticultural and Botanical Society the floral committee made the following awards: First-class certificates to the Horticultural School of Wageningen, for Canna hybr. O. J. Quintus; to E. H. Krelage & Son, for Chrysanthemum maximum Triumph, for cactus dahlias Leonora, Regulus and Ruby, for Gloxinia hybr. grandiflora Cyclop and Gloxinia hybr. grandiflora Goliath; to W. van Veen for Chrysanthemum maxium Tri-

umph and Dahlia Britannia; to K. Wezelenburg for Chrysanthemum maximum Triumph; to the Horticultural School of Frederiksoord for Heliotropium Peruvianum fol. var.; to Gratama & Co. for Rosa hybr. bifera Souvenir de Mme. Joseph Metine and Rosa Indica fragrans Mme. Yvonne Gravier; to G. A. van Rossem for Rosa Indica fragrans Auguste Waltine. Certificates of merit to the Horticultural School of Wageningen for Canna hybr. Oranjevlag and Canna hybr. Wageningen; to K. Wezelenburg for Centaurea montana rosea and Chrysanthemum filiferum; to G. A. van Rossem for Rosa Indica Mlle. Anna Chartron. A botanical certificate to the botanical garden of Leiden for Boea Commersoni.

City Water for Plants.

ED. AM. FLORIST:—The water from our city mains contains the following: Potassium sulphate 0.70, sodium sulphate, 1.86, sodium chloride 1.94, calcium sulphate 13.60, calcium carbonate 8.90, magnesium carbonate 10.30, iron oxide and alumina 0.21, silica 1.72. You will oblige by stating whether such water will be injurious to plant life, including roses, carnations, palms, begonias, etc. C. C.

The amounts of different compounds mentioned as contained in the water aggregate less than forty grains a gallon. If this water were applied to the depth of one inch over one acre of soil the amount of mineral matter thus added to the soil would be about 130 pounds. It is safe to say that this water could be used freely without injury to plant life.

L. L. VAN SLYKE.

Philadelphia Notes.

I ran up against little Johnny, noontime yesterday in Kift's ante-room. "Helloa, Johnny! Getting anything to do?" After taking a big bite at the sandwich—"You bet your life, been hustling all the morning!" Look out for little Johnny, he'll be heard from one of these days. If there's anything in this world I delight to see it's a hustling little boy. Pity they're so scarce.

The "Brave old Duke" thinks picnics can be run very economically now that we've annexed the Sandwich Islands. Men have died for better wheezes than that. Things look well around the "Duke's" place, especially the arecas and American Beauty roses. Orchids are still one of the specialties here, although there's "No money in them." Sometimes these nabobs of the orchid protest too much!

Farmer Battles' place overflows with goldenrod and fall asters, good things if one has the wit to know how to handle them. A seasonable tinge to one's store is always good advertising. G. C. W.

Wyncote, Pa.

Arecas, kentias, cocos and latanias! One need but take a glance at Joseph Heacock's plants to agree with the writer that a more perfect, a cleaner or a healthier looking stock would be hard to point out. What is most remarkable about Mr. Heacock's plants is their uniformity in size and growth. His hundreds of specimen arecas look one like unto the other, and so do his medium and small plants. Mr. Heacock reports increased sales and it is his unqualified opinion that this season will prove one of the most prosperous we have had in late years. This sounds very encouraging and the more so when it comes from a man like Mr. Heacock. HOMO.

Rochester, N. Y.

With the advance of the season store business increases rapidly. A few weeks ago hardly any of the shops were found open after 7 o'clock in the evening; now we often see all hands busy at 9 and later. It is not often that the last week in September brings such activity to the storekeepers.

The ordinary supply of flowers is good and the demand has gradually increased for the last three or four weeks, although prices are rather low. Outdoor stock is still abundant, although roses and carnations are exhibited oftener and in more generous bunches. Violets are here, too, and now and then we see a few orchids brought into prominence. As a rule orchids do not sell readily here, they are too expensive for Rochesterians, yet they are wanted occasionally. J. B. K.

BURLINGTON, IA.—N. J. Burt & Co. have been making a large display of ferns, decorative plants and seeds at the Des Moines county fair.

LYNN, MASS.—The festival which closed the annual exhibition of the Houghton Horticultural Society was largely attended. The exhibition was a pronounced success.

POUGHKEEPSIE, N. Y.—At the meeting of the Dutchess County Horticultural Society October 5, a paper was presented by A. H. Loughren on the subject, "How Parks Should be Managed."

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By a young man in a small retail place; age 20, single, steady; wages $20 per month and board. RELIABLE, care Am. Florist.

SITUATION WANTED—By experienced florist and designer; foreman; specialties, roses, carnations, mums, violets, best refs G, P.O. Box 547, Alliance O.

SITUATION WANTED—By young man as assistant in growing cut flowers; two years to the trade. Good worker and good recommendations. Address A B, care American Florist.

SITUATION WANTED—In a first-class cut flower establishment, by an experienced and thoroughly competent young lady Address FLORIST, care Mail Carrier No. 1, Springfield, O.

SITUATION WANTED—By an American Beauty grower; also first-class grower of cut flowers; competent to take charge of commercial place Married. Good references. FLORIST North Wales, Pa.

SITUATION WANTED—As head gardener and florist on gentleman's private place or institution by middle-aged, married man; no incumbrance Very best recommendations. B H R, care Am Florist.

SITUATION WANTED—By an experienced seedsman, as foreman or as seed salesman on the road. Have eighteen years' experience. References cheerfully furnished. Address C H S, care American Florist.

SITUATION WANTED—By a young, young German; 5 years' experience; good worker; good fireman—steam and hot-water A No 1 references Address Box 611, Alexandria Bay, N. Y.

SITUATION WANTED—As foreman by a first-class up-to-date grower, good in all branches of the business; only first class place wanted Wages $75 per month; open now or next spring Address FOREMAN, care American Florist.

SITUATION WANTED—By married man, 20 years' experience in flowers, fruits and vegetable gardening; all-round grower of greenhouse plants best references. Commercial or private place. Address F O M, care Am Florist, 67 Bromfield st, Boston.

Situation Wanted

By married man, practical grower of plants and cut flowers. Twenty years' experience. Five years in present place; leaving on account of reducing expenses. Well recommended.

J. A. WILSON, 306 27th St., Milwaukee, Wis.

WANTED—Nursery agency for northern Texas. Address F. A SPRINGER, Gainesville, Tex.

WANTED—Young man, with experience, to manage cut flower stand in market Give references and wages. F. M WELFER, Greenfield Ave., Pittsburg.

WANTED—Young man as assistant in retail florist store; must have a general knowledge of the florist business. Address with references. H. F. HALLE, 548 W. Madison St., Chicago.

WANTED—An experienced florist, gardener and fruit culturist; wages $20 per month and board. If not competent sober and industrious, don't apply. State refs CHAS WHITTENBAUGH, Shannopin, Pa.

WANTED—A good all-round florist, one who especially understands growing roses, carnations, violets and general stock Single man preferred. State wages with board. Address with references Box 504, St. Joseph, Mo.

WANTED A capable man to take charge of night firing in a large commercial establishment; must have thorough experience in running both hot water and steam boilers and must come well recommended as to ability, sobriety, honesty and steadiness. The position is a steady one. The work to be done is extensive and requires close attention, but systems are all conveniently arranged Only first-class men of ability need apply. HENRY A. DREER Lock Box 1678, Philadelphia.

FOR SALE—Four greenhouses, nearly new Good retail stand. A CLAUS, Springfield, Ill.

FOR SALE—At a bargain, greenhouse property in Greater New York, opposite three cemeteries. Little cash needed Particulars M, care Am Florist.

FOR SALE CHEAP—Three greenhouses, four lots and stock in the best and liveliest city in America, unincumbered Apply 558 South 1st St., Cripple Creek, Colo.

FOR SALE—12 acres in Orange Co; 300 trees on the place orange and grape fruit; fine lake front; good winter climate Price, $150 Address ALBERT BUCKWELL, Lake Maitland, Fla.

FOR SALE OR RENT—Good retail stand, 5000 feet of glass (new), has never paid less than $1300 per year net. Must buy stock. Reason for quitting, failing health Address ILL, care Am. Florist.

FOR SALE—Established florist's store on West Madison street, near Kedzie avenue; reason, cannot give personal attention. Rent, only $22 50 per month, including living rooms C J, care Am, Florist.

FOR RENT OR SALE—Greenhouse property, Potsdam, N Y, 4000 ft. glass, land, barn; residence if required; established retail business. Good chance for competent man F W PEST M D, Port Jervis, N Y.

FOR SALE—One good second-hand 25-horsepower upright boiler, 5½ ft. high and 4 ft wide; all tubes new 3 years ago. Also one 4-horsepower upright boiler. HARRY J MCFARLAND, Box 14, Marshalton, Chester Co., Pa.

FOR SALE—Florist, seed and nursery business, established 7 years, on the best business street in Seattle, Wash. Cleared $1356.40 from last November to July $1500 cash for the business including brick store 16x20 feet worth $800 Address at once PACIFIC NURSERY & SEED CO., 1313 3d Ave., Seattle, Wash.

FOR SALE—On account of age and poor health, three greenhouses, each 20×165, two filled with Beauty Bride Bridesmaid and Perle roses planted in July, and in excellent condition; the other is filled with carnations and chrysanthemums also fine; one frame 6×75 of pansies; one 6×140 of Marie Louise violets; 350 azaleas in 6 and 8-inch pots; one large lotus pond, filled 10 others; one never failing well of water; good boiler pump and tank; good houses; three acres good land; good stable and wagon shed. The best place around Harrisburg or in the county. For terms, address T. J. WINTERS, 943 North 7th St., Long Distance 'Phone 2454. Harrisburg, Pa.

TO LEASE OR FOR SALE.

In a live junction, 35 miles from Boston. One of the best locations in Massachusetts. Four violet houses 11x85 feet, well stocked; one carnation, rose and palm house 100 feet long, heated by steam and hot water; 100 h tbed sash; about two acres of land. Dwelling house if desired. Address BOSTON, care American Florist.

FOR SALE

A 20-year business, a 20-foot front, 3-story brick house of 10 rooms and cellar; stable 30x50 feet with greenhouse same size on top of stable. situated on Baltimore street 7 squares from city hall. In the city of Baltimore. In fee $10 000—$5,000 cash, balance long or short time Owner wishes to stop store keeping. Can show receipts for the whole time

GEO. V. SMITH, 1101 E. Baltimore St., Baltimore, Md.

FOR SALE.

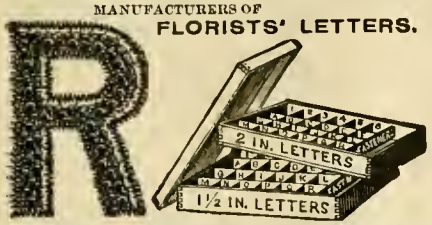
Greenhouse business in Illinois, city of 15,000 population, 120 miles from Chicago; practically no competition. Reason for selling, poor health Address.

W H G care American Florist.

When corresponding with any advertiser on this page, please mention the fact that you saw the ad. in the AMERICAN FLORIST.

Boston Florist Letter Co.

MANUFACTURERS OF
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 ½ or 2-inch size, per 100, $4.00.
Script Letters, $4 Fastener with each letter or word.
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.
Mention the American Florist.

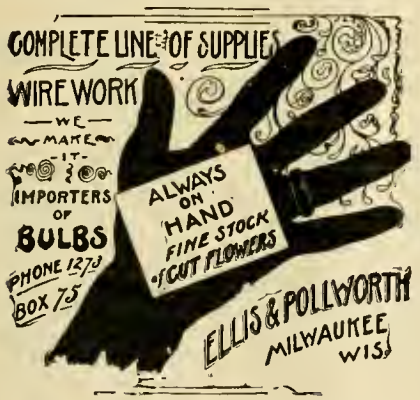
HARDY CUT FERNS

WRITE FOR PRICES.



L. B. BRAGUE,

Oldest, largest and most reliable dealer in the U. S. Hinsdale, Mass.



H. BAYERSDORFER & CO.

Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

New Catalogue of all FLORISTS' SUPPLIES on application. For the trade only.

H. BAYERSDORFER & CO.
50, 52, 54 and 55 N. 4th St., PHILADELPHIA, PA.

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CINCINNATI, Oct. 6.

Roses, Beauties, select	12 50@15 00
" " medium	8 00@10 00
" Brides, Bridesmaids	2 00@ 3.00
" Meteors	3.00@ 4.00
" Perles	2.00@ 3 00
Carnations	.75@1 00
Tuberoses	3.00
Lily of the valley	4 00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00
Common ferns	.15

ST. LOUIS, Oct. 6.

Roses, Beauties	3 00@15 00
" Meteors	2.00@ 5 00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	2.00@ 3.00
" Kaiserins	2.00@ 5.00
Carnations	1.00@ 2 00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Tuberose spikes, single and double	4.00

MILWAUKEE, Oct. 6.

Roses, Beauties, long.... per doz.	1.50@2 00
" " medium " "	1 00@1 50
" " short " "	50@ 75
" Brides, Bridesmaids	3 00@ 4.00
" Perles, Meteors	3 00@ 4.00
" Kaserins	3.00@ 4 00
Carnations	.75@ 2.00
Gladioli	2.00@ 3.00
Smilax	12 50
Adiantum	.75
Common ferns	.20
Asparagus	50.00

BUFFALO, Oct. 6.

Roses, Beauties	5.00@20 00
" Brides, Bridesmaids	2 00@ 6 00
" Meteors	2.00@ 6.00
" Perles, Niphetos	1.00@ 3 00
" Kaiserins	2.00@ 6.00
Carnations, ordinary	.50@ 1 00
" fancies	1.00@ 2.00
Lily of the valley	4 00@ 5.00
Smilax	10 00@15.00
Album roseum lilies	5 00@ 6.00
Asters	.50@ 1 00
Adiantum	1.00@ 1.25
Asparagus	50 00@75.00
Gladioli	1.50@ 3 00
Hardy Ferns per M, $1.50	
Tuberoses	2.50@ 3.00

LOUISVILLE, Oct. 6.

Roses, Beauties, per dozen	.75@2.00
" Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" Kaiserins	2.00@ 4 00
" Perles	1.50@ 2.00
Carnations, fancy	1.25@ 1.50
" common	1.00
Violets	.50@ .75
Smilax, per dozen	1.25@ 2.00
Adiantum	.75@ 1.00
Asparagus, per string	.50
Dagger ferns per M,	$1.00
Fancy " "	1.50
Asters	1.00@ 1.25

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Pteris serrulata, 2-inch	$3.00
Pteris serrulata cristata, 2-inch	3.00
Cyrtomium falcatum, 2-inch	4.00
Nephrolepis cordata compacta, 3-inch	10.00
Nephrolepis cordata compacta, 4-inch	25.00

PRICE LIST

	Per 100
Brides, Bridesmaids, Meteors	$2 to $3.00
Perles	2.00
Kaiserin	3 to 5.00
Carnations	75c to 1.00
Carnations, fancy	2.00
Valley	4 to 5.00
Tuberose Spikes	5.00
Asparagus, per string, 40c to 50c	
Smilax	10 to 12.50
Common Ferns, per 1000, 1.50	20c
Adiantum	50c

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" " 24 inch	" "	2 00
" " 20 "	" "	1 50
" " 15 "	" "	1.00
" " 10 "	" "	.75
" " 6 "	" "	.50
" Brides		2.00@ 4.00
" Kaiserins		2.00@ 4.00
" Bridesmaids		1 50@ 4.00
" Perles		1.50@ 3.00
" Meteors		2.00@ 4 00
Carnations		1.00@ 2 50
Asters		1.50@ 2 50
Lily of the valley		4.00
Adiantum		.50@ 1.00
Common ferns		.20
Smilax		10.00@12 00
Asparagus		30.00@50.00
Violets		1 00
Chrysanthemums, white		12 50@15.00

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NEW YORK, Oct. 5.

Roses, Beauties	5.00@20.00
" Bridesmaids, Brides	1.00@ 3.00
" Morgans, Perles	1.00@ 2.00
" Niphetos, Cusins	.50@ 1.00
Carnations	.50@ 2.00
Lily of the valley	2.00@ 3.00
Smilax	8.00@15.00
Asparagus	35.00
Cattleyas	30.00@35.00
Adiantum	.75
Violets	.50@ 1.00

BOSTON, Oct. 5.

Roses, Beauties	5.00@25.00
" Kaiserins	2.00@ 8.00
" Brides, Bridesmaids, Meteors	1.00@ 6.00
Carnations	.75@ 1.50
Lily of the valley	2.00@ 4.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00
Asters	.25@ .50
Violets	.50

PHILADELPHIA, Oct. 5.

Roses, Teas	2.00@ 4.00
" " extra	4.00@ 6.00
" Beauties, extra	12.50@16.00
" " firsts	6.00@ 8.00
" " seconds	4.00@ 6.00
Carnations	1.00@ 1.50
Lily of the valley	3.00@ 4.00
Asparagus strings	35.00@50.00
" Sprengerii per bunch	.50@1.00
Smilax	12.00@15.00
Violets, double	.50

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THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

S. B. DICKS, of Cooper, Taber & Co., expects to sail on S. S. Etruria October 8.

VISITED CHICAGO:—Herbert W. Johnson, of Johnson & Stokes, Philadelphia.

BEAN, pea and onion seeds are the scarce items this season on which prices are to be decidedly higher.

MINNEAPOLIS.—J. E. Northrup has returned from his eastern trip and is now off on another one to the Nebraska seed district.

THE New York Market Gardeners' Association (A. C. Nellis) was awarded the government seed contract on its bid of $70,980.

IT is said that the rule requiring high tests by the Department of Agriculture on seeds purchased thereby is not a dead letter and that some moneys are still held back on former contracts.

PHILADELPHIA.—The business of Wm. Hagemann will now be carried on under the title of Hagemann & Meyer, the latter (Chas. F. Meyer) having entered the concern as a partner October 3.

INDIANAPOLIS.—Messrs. Huntington & Page are making a temporary move while their former store is being rebuilt. Mr. S. H. Church's engagement with the Vail Seed Co. has terminated. E. S. Harnden is now with J. A. Everitt, seedsman, and a wholesale department is talked of; Mr. H.'s experience should have landed the government seed contract in a close political state like Indiana this season.

MILFORD, CONN.—The Everett B. Clark Co. report as follows on the Connecticut seed crops: All leading varieties of vegetable seeds will not average half a crop and in some localities not over a fourth. The crop of sugar corn is better, but planting was so very late, owing to excessive rains in spring, that late varieties will hardly be a full crop. Root crops for next year's seeding look very nicely now.

St. Louis.

FALL FESTIVALS MAKE BUSINESS GOOD.—PLANT PREMIUM WINNERS AT THE ST. LOUIS FAIR.

During the last three days trade has improved wonderfully owing to the opening of the Fair, the appearance of the Veiled Prophet, and the ball at the Merchants' Exchange. Stock is abundant, however, and prices do not rule at all high.

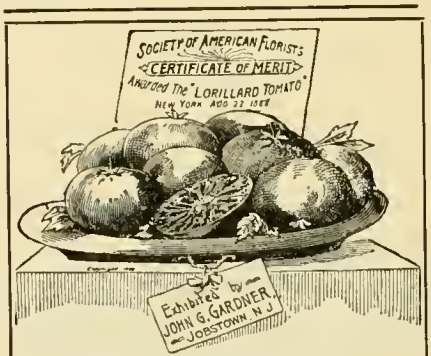
The decorations in the hall this year may be said to have been of cut flowers, as contrasted with plant decorations for the few preceding years. The principal decoration was the large fountain in the center of the dancing space. Specimen plants were distributed around the hall and on the staircase by which it was approached. The decoration was in very good taste and reflects credit on the Riessen Floral Company which had it in charge.

Wm. Schray made nearly a clean sweep at the St. Louis Fair in the plant section, having taken first in the following classes: Best and largest collection of greenhouse and stove plants, best collection of palms, best collection of Rex begonias, best twenty-five blooming plants for house cultivation, best pair hanging baskets, best specimen plant, an Araucaria glauca, best arranged group of foliage plants to present the greatest contrast of colors. The C. Young & Son's Company received first for largest and best collection of ferns, best collection of roses in bloom and best twelve geraniums. Mr. Kratz, of Lindenwood, received first on best collection of carnation plants. The C. Young & Son's Company was second in all the classes except that of twenty-five blooming plants for the house, which went to Mr. Kratz, and largest collection of ferns and best collection of carnation plants in bloom, which went to Mr. Schray. R. F. T.

Omaha.

Chicago Day, October 1, at the Trans-Mississippi Exposition made a busy time for all the local florists. Flowers were not to be had at any price. Hess & Swoboda, among other things had a large decoration order from Browning, King & Co., using large quantities of immortelles for piece work and asparagus for festooning, etc. American Beauty roses were a conspicuous feature of this decoration, and visiting florists wondered where they all came from.

Miss C. Arnold could have sold three times more flowers than were procurable, and Messrs. Stewart, Wilcox and Henderson had all the work they could attend to, hustlers as they are.



A Profitable Side Crop.

The tomato is one of the profitable side crops for the florist if properly handled. An important item in proper handling is to start right by getting proper seed. Experience has proven the "Lorillard" the best forcing variety so far; but much of the seed now on the market is not carefully selected as to type. I have taken pains to find something free from this objection, and have pleasure in offering

Lorillard Forcing Tomato...

Specially saved for my trade by the originator Mr. Jno. Gardner.. Pkts., 25c, 50c and $1.00, free by mail. Bulk price on application.

Sutton's Best of All Forc'ng Tomato

Has done remarkably well with those who tried it the past season. I do not know how it is for outside, but it's a dandy for forcing; large, round, deep scarlet, very prolific. Pkt. 40c. mailed free. (No bulk of this to offer at poesant). Give this new sort a trial. Stamps accepted for small amounts.

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Seedsman.....
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ENGLISH

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10 lbs. $1.00; 100 lbs. $7.50 f. o. b. Chicago; $7.00 per 100 f. o. b. New York.
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AM. ASSOCIATION OF NURSERYMEN.

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THE report of improvement in business is very general among nurserymen.

E. SMITH & SONS, Geneva, N. Y., have dealt in nursery stock for fifty-two years.

PECAN trees have become one of the profitable investments in Mississippi and other southern states.

J. G. L. MYERS, of Bloomingdale, Ind., will this month plant 1200 fruit trees, a third each of apple, pear and peach.

THIRTY THOUSAND trees and shrubs are to be planted in Riverside Park, N. Y., this fall at an estimated cost of $18,000.

A NURSERY of date trees of the Tunis, Persian and Fard varieties has been established in the Salt River valley of Arizona.

PRESIDENT STANLEY, of the Wichita Nursery Association, is the republican candidate for governor of Kansas. He is an enthusiastic horticulturist.

New York Scale Law Difficulties.

The nurserymen of the state of New York are in a peck of trouble and all on account of the scale law which their own representatives framed and pushed through the last state legislature.

It seems that when dealers who do not grow their own stock applied for certificates of inspection under the provisions of the new law commissioner C. A. Wieting ruled that the bill permitted inspection of stock only in nursery rows and that he was not authorized to certificate stock on packing grounds even if it had been previously inspected in the nursery and shipped under a certificate. The law prohibits the shipping of stock not accompanied by a certificate and this interpretation, of course, precluded non-growers obtaining a certificate and practically drives them out of business in the state.

Irving Rouse, who with Wm. Pitkin, secretary of the Eastern Nurserymen's Association, drafted the law, made haste to assure Commissioner Wieting that his construction of the statute was entirely different to the intention of the framers of the law and many other equally strong protests were made but were ineffectual in securing a revision of the commissioner's ruling. Every nurseryman in New York wishes to see the law enforced in its true spirit but the interpretation of the department is causing untold trouble as it forces non-growing dealers to buy their stock and pack and ship their orders outside the state, thus cutting off a large proportion of the usual wholesale orders enjoyed by the growers, and no relief is in sight short of the next session of the legislature, which will be called upon to amend the law.

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Palms...

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For Sizes and Prices, see American Florist of October 1st, page 269.

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50,000 plants in 2½-inch pots, $5.00 per 100, Xpress; 24 for $1.50 by mail.....
Specimens for 8-inch pots, $6 per 12.

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Mme. de Lesseps, Argentea Guttata, Compacta, Alba Picta, Thurstoni, Argyrostigma Picta, McBethi or Hybrida Richardsonii. Hybrida Multiflora, Fuchsoides Coccinea, Sandersoni,

Following in 2-inch pots only, $2.50 per 100: **President Carnot, Robusta, Decora, Alba Perfecta,** and a large number of other varieties at same price. The 3-inch plants are nice, large plants, ready for 4 or 5 inch pots; and the 2-inch plants are ready for 3-inch pots. Cuttings can be taken from them now, and they are in fine shape for winter propagating, or will make nice specimen plants for market trade.

THE GEO. H. MELLEN CO., INNISFALLEN GREENHOUSES, SPRINGFIELD, OHIO.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

IT is estimated that no less than fifty new bowling alleys have been built in Brooklyn, N. Y., during the past summer.

Do not fail to send $10 to J. F. Wilcox, Council Bluffs, Ia., and make formal entry of your bowling club as a participant in the great tournament to take place at Detroit next August.

THE local newspapers of Cambridge, Mass., speak of J. W. Shaw, the florist, as one of the famous champion bowlers of the University City. The Boston aggregation should secure him for the Detroit struggle.

St. Louis.

The trophy winners are still doing good work on the alleys, as is evidenced by the following score rolled last Monday night.

Name.	1st	2d	3d	4th	Av.
C. C. Sanders	170	123	148	189	160
J. J. Beneke	123	154	156	165	150
C. A. Kuhn	126	158	143	144	140
D. Finlayson	121	113	151	161	137
E. Schray	143	115	122	149	132
J. W. Kunz	117	120	100	157	120
R. F. Tesson	106	109	129	121	116
F. J. Fillmore	107	92	115	105	105

Cleveland Bowling Matters.

The contemplated action of the Cleveland Florists' Club is to extend to all club members, irrespective of bowling club membership, the privileges of the alleys in common with the bowlers. The bowlers have always had good times together and there is a general belief that this extension of the use of the bowling alleys will do much to increase interest in both club meetings and bowling, and promote a more fraternal feeling all around. A.

With Chicago Bowlers.

C. S. Stewart was the star of the contest September 30, although E. F. Winterson was the player who rolled the three best games. In the third game J. S. Wilson rolled four straight strikes and Stewart went him one better, but missed his sixth. His 184 was the high score of the evening.

Name.	1st	2d	3d	4th	Av.
E. F. Winterson	164	167	138	...	156
J. S. Wilson	142	165	173	131	152
John Zeck	149	151	143	146	147
G. L. Grant	157	137	135	152	145
Jno. Degnan	126	134	140	141	135
W. Kyle	134	113	144	...	129
S. Snedeker	116	111	159	...	128
C. S. Stewart	96	116	184	...	122
W. J. La Grotte	116	96	110	...	107
J. C. Vaughan	85	112	...	...	98

Buffalo Bowlers.

The bowling club has not been organized as yet but every one looks forward to it. Some favor having it entirely separate from the Buffalo Florists' Club, enabling everyone in the business to join without being a member of the club, and then the team bowlers be made to join the Buffalo Florists' Club before being allowed to roll at Detroit or any other city where the S. A. F. meets, while others wish to accept only members of the Florists' Club. If the first proposition is adopted we will have a large club and can then pick out bowlers who will come home with trophies, medals and everything else but the cities they bowl in. We have some young stock in the different stores that is almost good enough now to go in fast company. W.

Among the Philadelphia Sports.

What a flourish that was in your Buffalo notes last week. It made our bowling boys grin. They keep on saying nothing, but one can see they're not greatly scared. Those Buffalonians must not suppose they're the greatest things that ever happened. Remember we still have our Habermehls and Browns and Kifts and a score more in the heyday of vigor. As for shooting, bicycling or oratory Philadelphia can give them a Roland for their Oliver every time and, withal, might even go them one better. Besides that, look where we stand on poetry! So long as the Deacon abides in our midst we are invincible on that line. And then we have Charlie to give the foghorn shouts of encouragement. And where can he be matched? Go to, Buffalo. Don't shout too loud until you're out of the woods.

George Moss has developed into a dependable bowler of the first-class in the past twelve months. He will stand a good chance of a place in the best twelve in the coming contest.

Horace Dumont, another commission man, is with us again and, although a bit erratic so far, will no doubt give a good account of himself during the winter.

George Anderson, under whose captainship the Philadelphia bowlers won some of their most important trophies in days gone by, still likes to roll an occasional game with the boys. His strong forte is shooting, now-a-days, but he can hold his own with most of the sports in anything that comes along.

John Westcott is still giving us an occasional 200. For his years he's certainly a wonder. "Age cannot wither nor custom stale his infinite variety." He's the life and soul of the club room, first, last and all the time. One feels younger and more sprightly every time an evening is spent in his company.

Isaac Kennedy, gigantica robustum, made his first appearance for the season at the Saturday evening match last week. The air was blue for a while but after a little the old cunning seemed to return to his strong right arm and everything was lovely.

Dennis Connor is still one of the first six although he kept quiet until the brown October days came with their cooling breezes. Wisdom, thy name is Dennis.

Next Wednesday evening, the 12th inst., will witness the first of a series of three match games between teams picked from the regular and associate membership respectively. The personnel of the Regulars will be; Brown, Connor, Westcott, Watson, Kift and Longinette; and the Associates: Archer, Melle, Palmer, Goebel, Rennear and Moore. There are a good many side bets on the outcome already, opinion being pretty evenly divided for both sides as winners. Being so equal in strength a great game should result unless some of the men go to pieces.

G. C. W.

LOUISVILLE, KY.—There will be no chrysanthemum show here this fall, previous experiences not warranting the effort.

PARSONS, KAN.—R. G. Fergusson, recently shipped 400 bouquets to Vinita, Indian Territory, to be used as souvenirs at a millinery opening.

STRONG, FIELD-GROWN

Variegated Vincas.

Large plants suitable for 5-inch and 6-inch pots, $6.00 per 100.

Hydrangea Otaksa.

Nice stock, just right for 5-inch, 6-inch and 7-inch pots, at $5.00, $8.00 and $10.00 per 100.

Dracaena Indivisa.

Suitable for 4-inch pots, $6.00 per 100.

VICK & HILL CO., Rochester, N. Y.

GREATEST BARGAIN IN PLANTS

Because all stock offered is in A-1 condition.

ROSES—Maids and Brides, 4-inch, $7.50 per 100. Meteor, Maids, Brides, Perles, Niphetos, 3-inch, $5.00 per 100.

CARNATIONS—Field-grown, ready now. Daybreak, Scott, McGowan, Jubilee, Rose Queen, Helen Keller, $5.50 per 100, or $50.00 per 1000.

VIOLETS—Marie Louise, field-grown, ready now, $5.00 per 100, or $40.00 per 1000.

RUBBER PLANTS—Ficus Elastica, 5-inch at $5.00 per doz.

BEGONIA REX—4-inch pots, $20.00 per 100.

WM. F. KASTING

BUFFALO, N. Y.

SPECIALTIES IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
Prices low. Send for list. **VIOLETS.**

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CARNATIONS

FREE FROM RUST.

1000 McGOWAN.....$3.50 per 100
700 CARTLEDGE..... 3.50 per 100
1500 PORTIA..... 3.00 per 100
1200 SCOTT, $3.50. 500 ELDORADO, 4.00 per 100

CASH WITH ORDER.

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Pteris Tremula Ferns

Strong plants, ready to shift to 4 and 5-inch, from 2¼-inch pots, $3.50 per 100; $30.00 per 1000.

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SEDAMSVILLE, OHIO.

BOSTON FERNS, from 3-inch pots, $5.00 per 100.
COMMON FERNS, $3.00 per 100.
SWAINSONIA, 2-inch, $3.00 per 100; 4-inch, $8.00 per 1.00.
VIOLETS, MARIE LOUISE, field-grown, $3.00 per 100.

J. W. DAVIS, Morrison, Ill.

RUBBERS The true Belgian variety

Fine plants, grown all summer in full sunshine, from 5 and 6-inch pots, 35c, 40c and 50c each. Choice stock for growing into specimens, or for propagating, 4 to 5 feet high, $1 00 each. Cash with order.

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A large addition to our greenhouses this year will give us enough

BRIDES, BRIDESMAIDS, METEORS AND KAISERINS

to meet any emergency.

PALM Seed. FRESH ON HAND

	100	1000	3000
Kentia Belmoreana	$1.00	$6.50	$15.00
" Forsteriana	1.00	6.50	15.00

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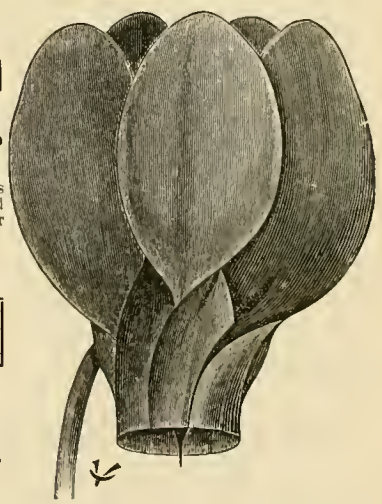
This Cyclamen seed has been grown especially for us by a most conscientious florist and we know that it will give entire satisfaction. Please favor us with your order for seed of this salable plant, at the very low price of.....

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and Novelties in Decorative Plants.

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We are now offering Cattleya Trianae and C. labiata in sheath; also Oncidium variecasum Rogersii in spike.

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ANTON SCHULTHEIS,

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HEADQUARTERS

For Ericas (Heather); also full line of other Flowering Plants.

PALMS and DECORATIVE PLANTS IN QUANTITY.

Come, see and convince yourself.

FERNS! FERNS!

100,000 Commercial Ferns in the best varieties out of 2-in. pots, grown in cool houses and well-aired. No better stock offered at double the price; $2.50 per 100, $20.00 per 1000, $50.00 for 3000.

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Azaleas
Palms
Bay Trees
Araucarias

THE FINEST STOCK IN THE WORLD

SANDER,
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PALM SEEDS.

The following MUST be ordered NOW direct:

COCOS WEDDELIANA	$3.00 per 1000
" GLAZIONII	4.00 "
GEONOMA GRACILIS	3.00 "
" IMPERIALIS	4.00 "
ARECA LUTESCENS	3.50 "

Not less than per 5000 delivered at above price; careful packing and freight paid to New York. Cash with order.

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Mention the American Florist.

Bloomsburg, Pa.

If there is one thing that has impressed itself upon the mind of the writer during a recent call upon the genial J. L. Dillon, it was the thrifty, healthful and, for this season of the year, exceptionally fine appearance of his roses and carnations. I beheld two houses of Kaiserin that were simply superb, while the Brides, Bridesmaids and Perles were equally attractive. Nor could I find fault with his carnations. Their general appearance is all that could be desired, showing thrift, care and good treatment.

Mr. Dillon is experimenting upon a number of seedlings, some of which, notably a few white ones, look decidedly promising, stem, fragrance and size, the cardinal points, being excellent. Would he put them on the market? Not this season. First of all Mr. Dillon must have positive assurance that his seedlings are worthy from a commercial standpoint. Another thing that attracted my attention was his field of carnation plants. A field of 40,000 clean, bushy and healthy looking plants is a sight worth seeing. This branch of his business, including both rose and carnation plants, has proven profitable, the demand for his stock from various sections of the country having increased from year to year, the sales this season being far ahead of those of any previous one.

To the majority of the florists, Mr. Dillon is perhaps best known as the Verbena King. And right here it may not be amiss to remark that his verbena kingdom is in a most flourishing condition and will be heard from in due season. HOMO.

CHATHAM, N. Y.—The floral parade, in connection with the annual fair here was a magnificent spectacle. Many of the turnouts were very elaborately decorated with flowers and the display was witnessed by fully 18,000 people.

EXTRA HEAVY **Clean Stock!**

Kentia Belmoreana

6-in., 5 to 7 leaves.....$15 to $24 per dozen.
5-in., 5 to 6 leaves..... 12 "

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6-in., 5 to 6 leaves.....$12 to $18 per dozen.
5-in., 4 to 5 leaves..... 9 to 12 "

FIELD GROWN **CARNATIONS...**

A fine lot ready for delivery.

THE COTTAGE GARDENS

QUEENS, N. Y.

		Per 100
ADIANTUM CUNEATUM,	2-in. pots	$3.00
PTERIS PALMATA,	2 "	4 00
		Each
PANDANUS VEITCHII,	4 "	50c to 65c
" "	5 "	$1 to $1.25
" "	7 & 8 "	$2 50 to $4

PEPEROMIA, 3-in. pots.....75c per doz.
PRIMULA, fine strain, 3-in. pots...$3 per 100
FITTONIAS, 3-in. pots...75c. to $1 per doz.
H. F. HALLE, 548 W. Madison St., CHICAGO.

SPECIAL OFFER!

Pandanus Utilis, 2½-in. pots, beautiful, clean stock, $8.00 per 100. Only a limited number, fine for growing on....

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Large Stock of Best Forcing Varieties.

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10 to 12 inch Crowns $35 per 100. 12 to 14 inch Crowns $48 per 100. 14 to 15 inch Crowns $55 per 100.



CYCAS REVOLUTA, fine stock, medium sized plants, with 6 to 8 leaves $1 each, 8 to 12 leaves $1.75 each, 12 to 15 leaves $3 each.
ARAUCARIA, Excelsa, 10 to 12 inches high $1 each, 15 inches high $1.25 each, 15 to 18 inches $1.50 each.
ASPARAGUS, Plumosus Nana, 2½ inch pots $5 per 100, 3 inch pots $6 per 100.
ASPARAGUS, Sprengerii, 2½ inch pots $5 per 100, 3 inch pots $6 per 100, 4 inch pots $15 per 100.
NEPHROLEPSIS, Exaltata Bostoninsis, 2½ inch pots $6 per 100.
ROSES, Field Grown, H. P. Etc. Large stock of strong healthy plants of best varieties for forcing, such as Baronesse Rothschild, Madam Gabriel Luizet, Magna Charta, Ulrich Brunner, Anna Diesbach, Gen. Jacquiminot, Mrs. J. H. Ling, Etc., $10 per 100. Write for prices on larger lots. Clio and Machioness of Londonderry $12 per 100. Crimson Rambler extra strong $12 per 100.

Full stock of Palms, Ficus and other Greenhouse Plants.

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SPECIAL OFFERS FOR 1898.

Our $50.00 per 1,000 Offer on Deciduous Shrubs.

An assortment of TWENTY VARIETIES (fifty each), purchasers' selection from Shrubs quoted in trade list at $4.00 to $7.00 per 100, will be furnished for **$50.00,** F. O. B. when cash accompanies order, otherwise packing charged at cost.

Our $75.00 per 1,000 Offer on Deciduous Shrubs.

An assortment of TWENTY VARIETIES (fifty each), purchasers' selection from Shrubs quoted in trade list at $7.00 to $10.00 per 100, will be furnished for **$75.00,** F. O. B. when cash accompanies order, otherwise packing charged at cost.

100,000 California Privel, 1 year, 2 years and 3 years.
5,000 Deutzia Gracilis, 12 to 15 inches, very fine for florists to force, $6.00 per 100; $50.00 per 1000.
10,000 Hydrangea Paniculata, different sizes.

Very Low Prices on Vines.

AMPELOPSIS VEITCHII, 1 year	$35.00 per 1000.
" " 2 years	50.00 per 1000.
ACTINIDIA ARGUTA, or Polygama, 1 year	8.00 per 100.
" " " 2 years	16.00 per 100.
CLEMATIS PANICULATA, from 3-inch pots	35.00 per 1000.
" " from 4 inch pots	60.00 per 1000.
" " open ground, 2 years, very strong	75.00 per 1000.
ENGLISH IVY, 1 year, open ground, strong	50.00 per 1000.
" " 2 years, very long vines	60.00 per 1000.
WICHURAIANA ROSES, 1 year	48.00 per 1000.
" " very strong, 2 years	75.00 per 1000.

DECIDUOUS TREES.

An immense stock of Norway Sugar, Silver and Sycamore Maples, Purple-leaved Beech, u - eaved Birch, Catalpas, Elms, Lindens, Horsechestnuts, Magnolias, Oaks and Willows.

OF INTEREST TO FLORISTS **EVERGREEN TREES** FOR WINTER DECORATIONS

We are specially prepared to supply florists with Evergreens suitable for winter decorations, either for window boxes, tubs or pots. We recommend the dwarf varieties of Arborvitæs and Retinosporas where a small or medium growth only is desired, and tall-growing Arborvitæs where larger sizes are preferable; either size plants are of perfect form and well furnished to the base. We solicit your orders for these.

PRICE LISTS ON APPLICATION.

THE WM. H. MOON CO.

MORRISVILLE, PA.

Successful Growers



Know that they can dispose of all their Surplus Stock by advertising in the American Florist. TRY IT NOW.

CARNATIONS

Fine Field-Grown Plants.

	100	1000
TIDAL WAVE	$3.00	$25.00
PORTIA	3.00	25.00
LIZZIE McGOWAN	3.00	25.00
KOHINOOR	3.00	25.00
NIVEA	3.00	25.00
MORELLO, MAYOR PINGREE	6.00	50.00
GOLDFINCH	3.00	25.00
HARRISON'S WHITE	3.00	25.00

No order for less than 100 accepted.

REINBERG BROS.
51 Wabash Ave., CHICAGO.

Surplus, Field-Grown
CARNATIONS

Clean, healthy, strong plants with plenty of roots.

White Cloud, white.	C. A. Dana, pink.
John Young, white.	Dazzle, scarlet.
Mary Wood, white.	Jubilee, scarlet.
Storm King, white.	Gold Nugget, yellow.
New York, pink.	Psyche, variegated.
Painted Lady, pink.	Lily Dean, variegated.
Mrs. C. H. Duhme, pink	Meteor, crimson.

Send for Price List.

FRED. DORNER & SONS CO.
FA YETTE, IND.

FIELD-GROWN
CARNATIONS

	Per 100	Per 1000.	2nd size.	100	1000
20,000 Wm. Scott	$5.00	$40.00.	"	$3.00	$25.00
10,000 McGowan	4.00	30.00.	"	3.00	25.00
Daybreak	—	—	"	4.00	30.00
Eldorado	6.00	50.00.	"	4.00	30.00
Portia	5.00	40.00.	"	3.00	25.00
Alaska	—	—	"	3.00	—
Mrs. Fisher	5.00	40.00.			

EDW. J. TAYLOR,
Southport, Conn.

CARNATIONS.

FINE, LARGE, FIELD-GROWN PLANTS....

450 Tidal Wave	$4.00 per 100
200 Ivory	4.00 per 100
700 Silver Spray	4.00 per 100
150 Bridesmaid	4.00 per 100
150 Rose Queen	4.00 per 100

For Sale: 500 WHITESMITH GOOSEBERRY plants, extra strong, 2-year, never mildewed in 30 years, $2.50 per 100.

E. HAENTZE, Fond du Lac, Wis.

CARNATIONS

800 DAYBREAK	$4.00 per 100
500 McCOWANS	3.00 "
400 SCOTT	3.00 "
250 METEORS	3.00 "

At these prices to close them out. They are all large size plants, healthy and stocky.

W. A. WETTLIN, Hornellsville, N. Y.

Please Mention The American Florist.

Field Grown CARNATIONS

Daybreak, Eldorado and Anna Webb, @ $6.00 per 100
Portia, McGowan and Scott, @ $4.00 per 100.
Free from rust. Cash with order.
DANA R. HERRON, - Olean, N. Y.

We like to have you tell our advertisers that you read our paper.

4 Acres Field-Grown Carnation Plants, 91,000.

Our Carnations are first-class in every respect, free from disease and packed lightly by our improved system of packing, by which we can send them to all parts of the United States and Canada in perfect condition.

JUBILEE	BUTTERCUP	CRIMSON SPORT	HELEN KELLER
		$6.00 per 100.	
BRIDESMAID	METEOR	MME. DIAZ ALBERTINI	CHESTER PRIDE
IVORY	ARMAZINDY	PURITAN	STORM KING
SWEETBRIER	L. L. LAMBORN	SILVER SPRAY	WM. SCOTT
MRS. FISHER		$4.00 per 100.	

J. L. DILLON, Bloomsburg, Pa.

EXTRA FINE CARNATIONS

WHY YOU SHOULD BUY YOUR PLANTS OF US:

1st. Because your order will be filled immediately.
2nd. Because our plants make a great mass of fibrous roots which enable them to stand long shipment well and to start at once when planted.
3rd. Because our plants are healthy and we grow the best varieties

Send for prices..... **GEO. HANCOCK & SON, GRAND HAVEN, MICH.**

CARNATIONS NOW READY

EXTRA FINE FIELD-GROWN PLANTS.

	Per 100
MRS. S. A. NORTHWAY	$10.00
Alba Superba	12.00
Evelina	12.00
Gold Nugget	12.00
White Cloud	12.00
Flora Hill	6.00
Lizzie McGowan	4.00
William Scott	4.00
Daybreak	7.00
Tidal Wave	6.00
Morello	6.00

PANSY PLANTS from our INTERNATIONAL Mixed Seed, the very best, $4 per 1000.

VAUGHAN'S SEED STORE
Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

NEW COMMERCIAL WHITE
Carnation ...GENESEE.

A few hundred good, Field-Grown, on sale at $12.00 per 100.....

DAN'L B. LONG, Sales Agent,
Buffalo, N. Y.

SURPLUS CARNATIONS.

A splendid second size, and sure money makers at the price.

500 SILVER SPRAY
500 EMILY PIERSON
300 WM. SCOTT
200 ROSE QUEEN
50 METEOR
} 2c. each.

Make us an offer for the lot.

STOVER FLORAL COMPANY, Grandville, Mich.

25,000 CARNATIONS

Fine Strong Plants, Perfectly Free from Rust.

WM. SCOTT, TIDAL WAVE, DAYBREAK, PORTIA, SILVER SPRAY, KOHINOOR.

$3.00 per 100; $25.00 per 1000.

CHARLES SCHAFER,
220 Balmoral Ave, Station X, CHICAGO, ILL.

FINE FIELD-GROWN CARNATIONS.

325 Goldfinch	$5.00 per 100
850 Portia	4.00 per 100
260 Wm. Scott	4.00 per 100
1450 McGowen	4.00 per 100
400 Her Majesty, pink	4.00 per 100
200 Uncle John	4.00 per 100
200 Garfield	4.00 per 100

ROSES—La France, $3.00. Meteor, $2.50.

THE NATIONAL PLANT CO., Dayton, O.

CARNATIONS

H. WEBER & SONS,
Oakland, - Md.

Large, Healthy, Field-Grown
CARNATIONS

of the following varieties:

SCOTT, ROSE QUEEN, MINNIE COOK, BRIDESMAID and ELDORADO.

$5.00 per 100; $40.00 per 1000.

Fine assortment of extra strong **FERNS,** $4.00 per 100.

Fine large **SMILAX PLANTS,** from 3½-in. pots, $3.00 per 100; $25.00 per 1000.

PRIMULA OBCONICA, from 3½-inch pots, at $3.00 per 100.

Large field-grown **DRACAENAS,** 3 years old, $10.00 per 100.

SWAINSONIA PLANTS, from 3½-inch pots, at $6.00 per 100.

JAMES HORAN & SON,
BRIDGEPORT, CONN.

FIELD-GROWN CARNATIONS.

Ready now. Standard varieties. Write for prices.

FIELD-GROWN MARIE LOUISE VIOLETS, $4 per 100. A1 stock, from pots, $3 per 100; $25 per 1000.

A few hundred BRIDES and MAIDS at a bargain, from 3-inch pots.

CRABB & HUNTER, Grand Rapids, Mich.

FIELD GROWN CARNATIONS

Lizzie McGowan, Wm. Scott and Portia, $6 per 100; $50 per 1000.

JOHN REIMELS,
WOODHAVEN, L. I.

Field-Grown CARNATIONS
And Violet Plants

GOOD STOCK. LOW PRICES.

A. WASHBURN & SON, BLOOMINGTON, ILL.

Carnations! FIELD-GROWN.

All sold except 500 Wm. Scott, 300 Emily Pierson, 500 Lizzie McGowan, 100 Morello and 100 Goldfinch

If there is anything here you want, write me and get some low prices on this lot. Address

Chas. Chadwick, Lock Box 11, Grand Rapids, Mich.

Buffalo.

HOT WEATHER MAKES TROUBLE.—ROSES, CARNATIONS AND VIOLETS.—SHOW MATTERS.—VISITORS.

With weather as warm as in August, trade has not been rushing. Roses are coming in a little better each day. Carnations from some growers are very good, while others are of good color, but small.

The Florists' Club had another meeting last week pertaining to the flower show, which so far is progressing favorably. Weekly meetings will be held until after the show as there is quite a good deal of work given to the different committees.

Paul Berkowitz, Philadelphia, Joseph Rolker, New York, and J. F. Sullivan, Detroit, were callers last week, the latter getting promises from all to come to Detroit next August.

Violets made their appearance the other day. One lot were very fragrant, but looked as if they had malarial fever. However, they were able to be worn by a fair maiden who was escorted by a tall and graceful athlete in the trade who knows what is pretty both in flowers and the fair sex. W.

Helena, Mont.

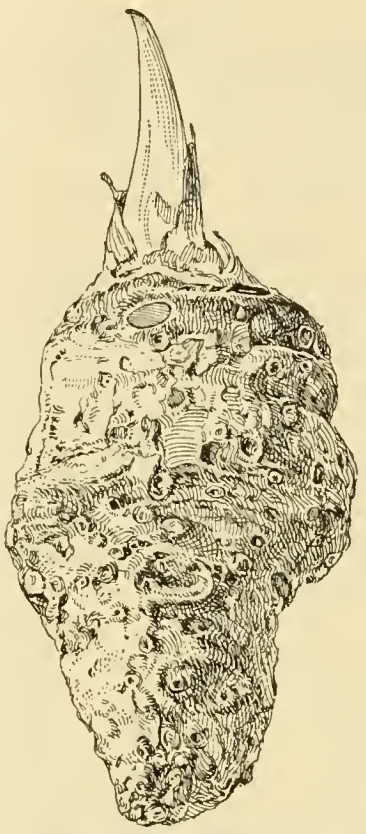
"Busy as bees" is a term which seems applicable to the florists of this town. At Mrs. Mattie Miller's establishment, the Broadwater Greenhouses, everything is growing finely. Herman Miller has recently returned from the Klondike, and it is rumored he came back with a large sack. When questioned on this matter Mr. Miller was rather reticent, which led us to fancy he didn't want the assessor to know too much.

At the Wells' Conservatory, Mrs. Wells is in the midst of extensive repairs and improvements. For the first time in fifteen years hail has seriously damaged this establishment. The broken glass is being replaced and new bars are being put on where needed. One house has been demolished and is being rebuilt with different slope. The premises are being generally overhauled to be in good shape for winter.

Chas. Horn reports business good. He also suffered somewhat from the hailstorm early in September. One new carnation house is almost completed at this place and everything is being put in ship shape for the cold season. Mr. Horn grows some good Wootton and Kaiserin, also chrysanthemums.

The State Nursery Company is as usual holding its own. Building operations here were completed earlier than usual this season and they are consequently a little further ahead with fall work. Roses are producing their first crop and carnations are all inside. Thos. E. Mills, the president of the company, takes a good deal of pride in growing chrysanthemums although he says they hardly pay for the the amount of labor expended on them. He has about 3500 fine plants in pots, besides those bedded. Mr. Wilson has charge of the roses here, and it would be difficult to find a better looking lot. President Carnot is one of his favorites, besides which Beauty, Bride, Bridesmaid, Perle, Wootton and Meteor are grown. Glen Morris is the popular carnation grower and has charge of seven houses of these ever-in-demand flowers. Mr. Morris is also something of a sportsman, and in a recent visit he made to the Big Blackfoot country, he almost "cut a swath" through the game and fish.

A. J.



CALIFORNIA
Calla Bulbs.

Owing to a scarcity of Lilium Harrisii and Longiflorum bulbs, CALLAS should be a profitable crop for Christmas and Easter sales.

Through our Exchange Sales with best Pacific Coast growers of these roots we are able to deliver choice, carefully cured and evenly graded roots at closest growing prices.

	Doz.	100
FIRST SIZE, 1¼ to 1½-in. in diam.....	$.75	$5.50
SELECT, about 1½ to 1¾-in. in diam....	1.25	7.00
EXTRA SELECT, about 2 to 2½-in. diam.	1.50	10.00

JUST ARRIVED!

Carload of Chinese Narcissus, the best selling bulb for retail trade. Choice, first size, per 100, $4.50; Mammoth Size, per 100, $6.00.
Special Prices Quoted for Quantities.

ALSO READY:

ROMAN HYACINTHS,
P. W. NARCISSUS GRAND.,
DUTCH HYACINTHS,
TULIPS VON SION,
and a FULL LINE.

VAUGHAN'S SEED STORE,

CHICAGO: 84-86 Randolph St. NEW YORK. 14 Barclay Street.

LOWEST PRICES ON BULBS, BUT CASH!

Send in your wants for quotation, no price list issued.
J. L. SCHILLER, 404 East 34th St., NEW YORK.

BULBS

Of All Kinds.

Hulsebosch Bros.,

ENGLEWOOD, N. J.

FOR SALE.

100,000 Strong LATANIA Seedlings, very well rooted, $25 per 1000
30,000 FERNS for dishes, very large, 2½-inch, $3 per 100; $25 per 1000.
4,000 SWORD FERNS, 4-in. $9, 4½-in. $10 per 100.
2,000 RUBBER TREES, in excellent condition, 5½-in. 50c; 6 in. 70c. You never saw better Ficus.
60,000 PALMS in variety. All sizes. (Medal awarded on Palms at World's Fair, 1893).
10,000 No. 1 'MUMS, ready for this fall.
Try us on No. 1 CUT FLOWERS. 26 greenhouses.

ALBERT FUCHS, 2059-73 N. Halsted St. CHICAGO.

REX BEGONIA

	Per 100
34 Named Varieties, 2-inch pots.....	$8.00
34 " " Rooted Cuttings,	4.00
Mixed " " "	2.00
" " 2-inch pots.....	4.00

Write for prices on other stock. Terms Cash or C. O. D.

GREENE & UNDERHILL

WATERTOWN, N. Y.

Successful growers become successful sellers when they advertise in the American Florist.

GUARANTEED
Fresh Seed From Australia.....

	Per 100	Per 1000
Kentia Belmoreana or Kentia Forsteriana, delivery included.....	$.64	$ 4.99
Samples on application to intending purchasers.		
Lil. Harrisii, 5x7.....	4.00	37.00
Freesias, Cal grown, ¾-⅝, delivered....	.50	3 25
" Pure white flowers, guaranteed	.65	5 00
Calla Æthiopica, 3x5 in.....	4 50	40.00
" " 4x6 in.....	6 00	55 00
" " 5x7 in.....	8 00	75 00

Cyclamen Giganteum Bulbs 1½-3 in. diam., doz, $1 00 in pure white, rose, crimson, white with red eye, rose with dark eye. Select Seed from Prize Flowers of above sorts separate or mixed. Clearance price, 100 seeds, 75c; 1000 seeds, $5 00.
Choicest PANSY SEED from Germany and Scotland. Giant Flowers, oz., $3 50; ½ oz., $2 00; 1000 seeds, 25 cts. 5 per cent. for cash on above prices. Address

H. H. BERGER & CO.,
47 Barclay Street, NEW YORK.
(Established 1878.)

DOUBLE VON SION

Extra fine Bulbs, per 100, $1.75; per 1000, $15.00.

Freesia Refracta Alba

1st size, per 100, 75 cts.; per 1000, $5.50.

L. C. BOBBINK, Rutherford, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

Please Mention The American Florist.

ASPARAGUS

PLUMOSUS NANUS, 2½-inch pots.....$7.00 per 100
ROSES, Bride and Bridesmaid, 3½-in. pots, $5 per 100
Cyperus Alternifolius, 2½-in. pots.....$2.50 per 100
Grevillea Robusta, 2¼-in. pots.....$2.50 per 100

NATHAN SMITH & SON,
ADRIAN, MICH.

McCOWAN CARNATIONS, field-grown, strong, healthy, $3 per 100; $28 per 1000.
CINERARIA and BOSTON IVY, 2½-in., $2.50 a 100.
GERANIUM CLUMPS, $5 per 100.
INSALL & LEADBETTER, Moorestown, N. J.

GOLDEN GATE **Rose Plants.**

SELECTED STOCK.

3 and 4-inch pots, $25.00 per hundred.
For Cash or in Exchange.

American Rose Co., Washington, D. C.

ROSES. ROSES.

No diner grown. Big bushy plants, full of flowering shoots, out of 3 and 3½-inch pots, at $3.00 per 100. Meteors, Brides, Bridesmaids, Perles and Beauties. This stock is cheap at twice the price, but must be sold at once to make room.

SMILAX PLANTS, 2-inch pots, full of roots and covered with plant—no diner to be had—at the lowest price ever quoted. 75c per 100; $5 00 per 1000.
CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

CANNAS—Rambler Roses

From field for Fall delivery.

Also **30,000 SPIRÆA ANTHONY WATERER.**
40,000 LOCAN BERRY TIPS.

The Conard & Jones Co., WEST GROVE, PA.

Geranium "MARS"

STOCK PLANTS, FIELD GROWN, READY NOW....

$1.50, $2.25, $3.00 per doz.; $15.00 per 100. Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

Chinese Primroses

6000, 2½-inch pots, strong, mixed colors, $2.00 per 100.

PANSY PLANTS, 25,000, $3 50 per 1000. CASH WITH ORDER.

JOS. H. CUNNINGHAM, Delaware, O.

Mention the American Florist.

VIOLETS. & SMILAX.

VIOLETS, Marie Louise, field-grown, strong and absolutely healthy, $4.00 a 100; $35.00 a 1000.
"Seconds" (inferior only in size), one-half above prices.

SMILAX, 2½-inch, fine, once cut back, $1.00 a 100; $8.00 a 1000.

Cash with order please. Samples, postpaid, 10c.

R. KILBOURN, Clinton, New York.

X GIANT PANSY X PLANTS.

Finest mixed large-flowering pansies to be had; none better Strong, healthy plants at $3 50 cash per 1000, while they last. Primroses and Cinerarias all sold.

JOHN F. RUPP, Shiremanstown, Pa.

Surplus Stock

Can be disposed of by advertising. Try it.....

This Size "Ad." Costs Only $1.00.

AMERICAN FLORIST CO., CHICAGO.

FINE ROSE STOCK, 3-in. strong, healthy. Maids, Brides, $3.50 per 100; Perles, $5.00 per 100. Extra value, sure to please.....

W. H. CULLETT & SONS, Lincoln, Ill.

PANSY PLANTS!

Stocky plants from Engle's select strain, $4.00 per 1000, cash.

W. J. ENGLE, - Box 211, Dayton, O.

SMILAX.

Strong, 3-inch, one year.....$2.50 per 100
" 2½ " " " 2.00 "

F. A. BALLER, Bloomington, Ill.

HERR'S PANSIES. BUY THE BEST

SEED at $1.50 per ounce. A liberal packet for $1.00.
PLANTS at 75 cts. per 100, or $4.00 per 1000; 250 for $1.00, by express.

ALBERT M. HERR, LANCASTER, PA.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphetos, Kaiserin, 3 and 4-inch.

Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted.

A. S. MacBEAN, Lakewood, N. J.

PANSIES

Roemer's Superb Prize Pansies.

This improved strain includes all the leading novelties, strong, bushy plants, ready now, 60c. per 100, by mail; $2.00 per 500, by express; $4.00 per 1000; $7.00 per 2000; $10.00 per 3000.
CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

Cabbage and Lettuce Plants

CABBAGE, Jersey Wakefield, Chas. Wakefield, Early Summer, Il. Succession and New Early.

LETTUCE, Big Boston, Boston Market, White Loaf, Tennis Ball, Grand Rapids, Curled Simpson.

15 cts. per 100, $1.00 per 1000, $8.50 per 10,000. If by mail, add 10 cts. per 100.

TOMATO LORILLARD, pot grown, 25 cents per dozen; $2.00 per 100.

CAULIFLOWER SNOWBALL, 35 cents per 100.

R. VINCENT, Jr, & SON, White Marsh, Md.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at $1.00 each.

M. B. FAXON,
Lock Box 1528, BOSTON, MASS.
Correspondence solicited.

THE MORRIS FLORAL CO.,

MORRIS, ILL.

Wholesale Growers of Plants

in season for florists.

100,000 2¼-inch plants now ready, at $2.00 per 100.
Send for fall price list.

GOOD, FIELD-GROWN

Marie Louise Violets

None better ever seen, per 100, $5; per 1000, $40.00 Healthy stock.....

F. P. ZIMMERMAN, FLORIST, TARKIO, MO.

Mention American Florist.

Pink Paeony Clumps FOR FALL PLANTING

At $10.00 per 100. Will divide into two and three. Easily cultivated; need no protection during winter. Any florist having land will find them big payers. Freight any distance.....

BRANT & NOE, & Forest Glen, Ill.

Hydrangea Otaksa.

Fine 6-inch pot plants, at $23 per 100
" 5 " " " " 20 " "
DRACAENA INDIVISA, pot grown, 6-inch 20 " "
" " " " 5 " 15 " "
UMBRELLA PLANTS, 3 and 4-inch. $3 and 4 " "
See Convention Number for other stock.

CARL HAGENBURGER, - West Mentor, O.
CASH, PLEASE.

To Catalogue and Market Men.....

NOW READY!

STRONG CANNA TUBERS

of 1 to 3 eyes.

NEW—Florida, Gloriosa, Surprise, Pres. McKinley. $5.00 per 100.

Mme. A. Bouvier, Flamingo, Alsace, Souv. de Antoine Crozy. $3.50 per 100.

Italia, Queen Charlotte, Chicago, Philadelphia, Eldorado, Comte de Bouchand, Papa, Glory de Montet. $2.00 per 100.

Burbank, Florence Vaughan, Egandale, Salmon Queen, Sunset Glow, Mme. Crozy, Chas. Henderson, A. Bouvier, John Laing, Paul Marquant, Austria, and many more. $1.50 per 100.

Full 1000 of Burbank, Austria or Egandale, $8.00
Full 1000 of Florence Vaughan or Queen Charlotte, $15.00. (All others named, 10 per cent. off by the 1000.)

ORDER NOW. Nothing reserved at these figures

F. O. B. Express or Fast Freight.

Pampas Plumes. Crop 1898.

Size in length, exclusive stems. First-class in every respect.

	Per 100
17 to 20 inches	$.75
20 to 22 inches	1 00
22 to 24 inches	1.25
24 to 27 inches	2.00
27 to 30 inches	3 00

Pampas Grove Nurseries, Greenland P. O., Fla.

SPECIAL BARGAIN OFFER NEW CROP **PANSY SEED** All the Giant and Fancy Strains that are to be had, either in this Country or Europe. Specially made up by us from all the separate colors; and is without question the finest strain of large flowering Pansies. **ONLY 14 CENTS** per trade packet of 500 seeds, or **8 CENTS** for ½ trade packet of 250 seeds; with illustrated directions how to grow big Pansies.

S. Y. HAINES & CO., 105 Boston Block, MINNEAPOLIS, MINN.

Pansies Worth Raising.

EXCELLENT SEED.

3-16 oz. $1.00; 1 oz. $4.00; up in 8 to 10 days, if properly treated.

FINE STOCKY PLANTS, $4 00 per 1000. f. o. b. express. ☞ CASH WITH ORDER.

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.



H. Wrede,
LUNEBURG, GERMANY.

PANSY SEED.

144 First Prizes, the highest awards World's Fair, and Hamburg, 1897.
1000 Seeds, finest mixed, 25c.
1 oz. " " " $3.75

☞ Price List on application. Cash with order.

Zirngiebel's Giant Pansies

PLANTS of the above strains at the same rates as the common varieties, viz: **$5 per 1000.** With our system of packing, plants can be sent safely any distance.

DENYS ZIRNGIEBEL, Needham, Mass.

300,000 Pansy Plants The JENNINGS Strain.

Fine field-grown, stocky plants, in great variety of colors. All large flowering.

By mail, 75 cts. per 100: express, $4 00 per 1000; 5000, $18.00. Seed of above, $1.00 per pkt.; $5.00 per ounce.
CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, Southport, Conn.
Grower of the Finest Pansies.

St. Paul.

FAVORABLE CONDITIONS AT MINNESOTA'S CAPITAL.—BEAUTIES IN DEMAND.—CARNATION NOVELTIES TAKE WELL.—SWANSON'S WELL KEPT PLACE.—WITH OTHER GROWERS.

Trade is spasmodic, though gradually improving. Stock is fairly plentiful, with the demand about balancing the supply. Roses are improving daily in quality and quantity, the only notable shortage being reds. More and better Beauties are being cut than for some time past. The demand for them is increasing rapidly and one of of the best signs of the times is the willingness with which people buy Beauties at from $3 to $5 per dozen.

Carnations are coming in more freely and are ample for the demands. The newer varieties, as Triumph, Flora Hill, Bon Ton, Jubilee and Evelina, are prime favorites with flower buyers and are decided acquisitions. Daybreak still retains its hold, however, and we have yet to see a flower that for all around qualities can beat it. Chrysanthemums are appearing in limited quantities. Fitzwygram was the earliest variety to open here, Swanson and May & Co. both having them in some two weeks since. Violets are beginning to appear, though of poor quality and in meager quantities.

Building operations are about completed and show as large an increase in glass as usual. A. S. Swanson has built a house for Beauties 18x100. The glass used is 16x16, butted. The roof is three-quarter-span and the beds are solid. The plants were put in late in anticipation of a big crop for Christmas. He is growing more violets than usual this season and his plants in solid benches are very strong and vigorous. Charcoal distributed in the soil about the houses has a very beneficial effect. His chrysanthemums are all grown in sprays, three to six on a plant, quite a radical departure from past methods, his single stems in other years being the cynosure of all eyes. A bench of Boston ferns shows the rapid growing habit of that valuable plant and suggests the possibilities open to some of our smaller growers in that line. His place is practical and complete, now comprising about 30,000 feet of glass to which he adds each year.

L. L. May & Co. have just completed a cool house for azaleas, hybrid roses, bulbs and other spring flowering stock. The size of this building is 10x140. At their city store the past week a window of orchids caused much favorable comment. This firm has just received its fall importation of palms from Belgium and their conservatory 50x50 is literally a palm garden. The varieties most in evidence are arecas, latanias and kentias.

Carl Hangen has about 3000 violet plants, all in fine condition. Nearly all are of the Marie Louise variety. Some are in solid beds and some on benches, as he sees no particular advantage in either method. A house of roses, Perle, Bride, Bridesmaid and Testout, is in fine shape. His other stock consists of carnations, Scott and Daybreak being the principal varieties grown.

E. F. Lemke has completed and occupies his new store on West Sixth street. This adjoins his residence and is in the rear of his old place on Seventh street, which he still continues. FELIX.

WEBSTER, MASS.—Mrs. A. L. Converse is making a complete renovation of her greenhouse establishment. Additions are being made and new heating apparatus is being put in, at an expenditure altogether of about $2,000.

THE HARRISH DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent. **KRAFT'S PLANT TONIC**

THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25 cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.

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MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
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MR THERON PARKER,
Dear Sir:—Your wire stake is certainly a gem Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
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Butte, Mont.

The State Nursery Company reports business fair for the warm season but this being their first year in Butte they are unable to make comparisons. They are now receiving all their flowers from their own greenhouses at Helena, and certainly have an advantage in shipping a short distance. Miss Anna Zweifel is the popular manager of their store at 47 West Broadway, and seems to be doing her share of the business of this bustling city. Miss Zweifel is an expert at designs and has such good taste that her work is easily recognizable from its originality and finish.

Law Bros. & Day are, as usual, very busy and report that they cannot grow enough flowers to supply the demand and always have to ship a lot to help them out. They have built two fine carnation houses this season, each 20x125 feet, and think this increase in their capacity will help them out a little. They are to have a fine new retail store built especially for them, which they say will eclipse everything of the kind between the Missouri river and the Pacific. This firm succeeded to the old established business of Mrs. Knox and they are wide awake business men.

The Silver Bow Floral Company has been offering its plant for sale, and several rumors have been circulated to the effect that the sale had been made, but they appear to have had no foundation. A. J.

City of Mexico.

A fine greenhouse has been erected in the Toluca Alameda. It is over 100 meters long and eighty meters wide and a very handsome structure, mostly of iron and glass. It will be filled with rare plants, a great number of which have already been donated. A handsome aviary has also been erected in the same place.

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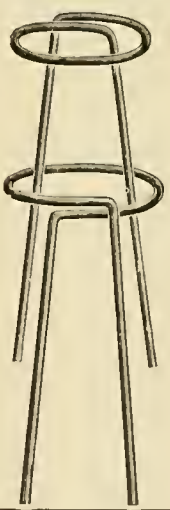
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Cincinnati.

TRADE CONTINUES BRISKLY.—AMERICAN BEAUTIES ARE SCARCE.—JOTTINGS OF INTEREST.

The improvement noted last week is continuing and our wholesale houses report a good shipping trade. The demand for American Beauties is very brisk at present and at times a scarcity manifests itself.

B. P. Critchell's Sons had the decoration for the fall opening of McAlpin's big dry goods store October 4. Fifteen cases of wild smilax and several large wagon loads of decorative plants were used. In cut flowers they used 500 American Beauties and several thousand teas.

The Cincinnati Cut Flower Co., is receiving good stock of Beauties from the well known firms of George & Allen and W. Gray.

Of our growers Julius Peterson is first on the list this year with chrysanthemums, and a fine vase of Lady Fitzwygram adorns one of his show windows.

Miss May Underwood was quietly married to Cecil Plummer September 28, at the bride's home, Ludlow, Ky.

Fischer Bros. have started manufacturing flower pots and will be ready for fall trade.

H. SCHWARZ.

Worcester, Mass.

The weather we have been getting this last week has been phenomenal for this time of the year, the thermometer registering 82° in the shade on October 1, which is quite a different story from that of two weeks ago, when we had to start firing in the rose houses. Trade received a slight impetus from the Musical Festival held here last week and business in general is fairly satisfactory, although flowers of good quality are not plentiful as yet.

The weekly exhibitions of the Horticultural Society maintain their usual excellence in flowers, fruits and vegetables. They will continue during this month, and the chrysanthemum show is booked for November 8 and 9. The annual meeting of the society will be held November 2.

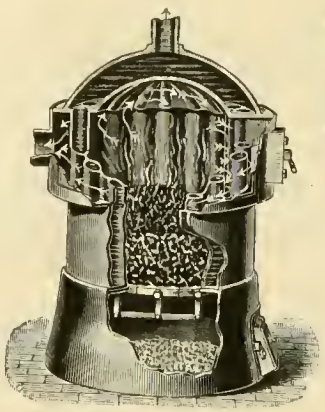
The warm fall has had a bad effect on the bulb trade, as the general public needs a couple of hard frosts to awaken it to the necessity of planting tulip and hyacinth beds before it is too late. This trade grows less every year, as people are planting more herbaceous stock.

A. H. L.

Grandville, Mich.

Business here is on the increase and all the indications point to both brisk demand and good stock for the winter trade. Large quantities of carnations have been grown here this summer and while the plants have, perhaps, not made as large a growth as might be desired they are of splendid vigor and promise to supply a profitable crop of blooms. One of the best things of the season is Silver Spray as grown by the Stover Floral Company. It is a surprise for those who affirm that this variety is a back number. Their carnations have all done exceptionally well with the possible exception of Wm. Scott which is not quite as large as their other sorts. Their chrysanthemums and violets are also very good.

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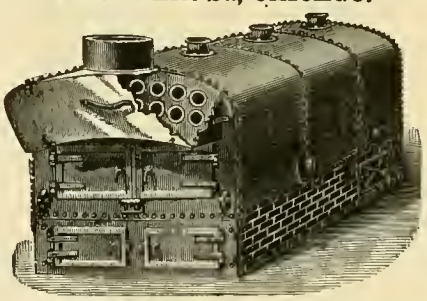
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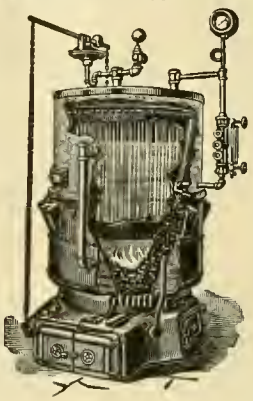
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Providence, R. I.

It is very gratifying to have a more favorable report to make as to the condition of business. The principal craze at present seems to be for Nephrolepis Bostoniensis.

At the last meeting of the Florists' and Gardeners' Club the meeting night was changed to the second Thursday in each month. The meeting was well attended and the aster disease was discussed to some extent. Aster growing about here was not very satisfactory this season. James Hockey read a very instructive paper upon fern growing, handling the subject from the spore to the specimen plant, giving many valuable points from a life long experience.

The Rhode Island Horticultural Society held its annual outing on October 1, at Annawan Rock. About fifty members were present. There was diversity of entertainment, among other pleasing features being Miss Lillian Macrae's several meritorious recitations. On the whole it was a day well spent.

J. M. Sullivan, 1205 Westminster street, was recently the victim of the palm swindler, but many of the plants were recovered and Mr. Sullivan will not be at a very great loss.

Walter I. Hogg has returned much refreshed after his vacation.

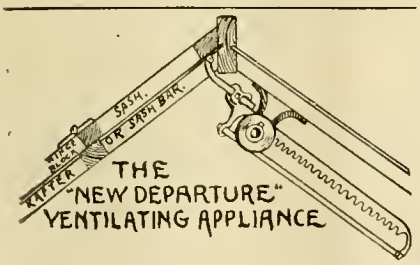
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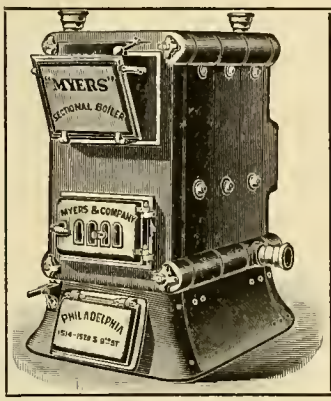
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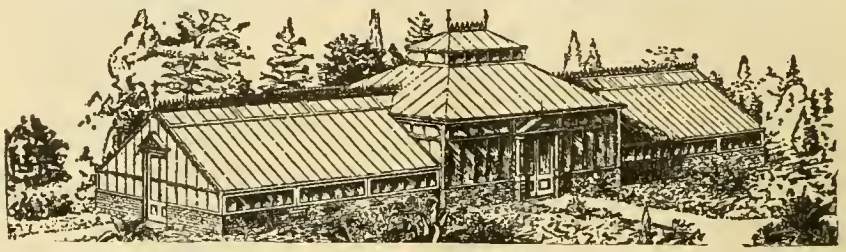
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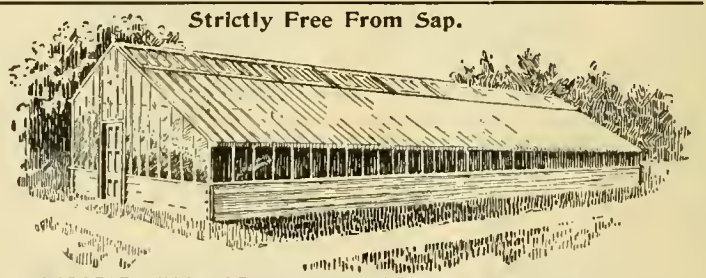
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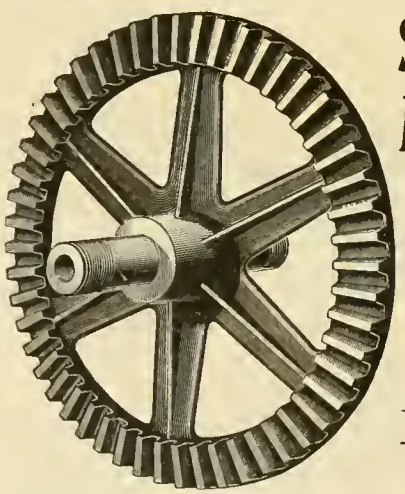
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Annual Convention at Philadelphia, February, 1899 ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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VIOLETS.

VIOLET GROWING IN WISCONSIN.

It is within the past few years that the violet industry of Wisconsin has attained proportions to attract widespread attention, and to this day the culture of this profitable crop is confined, in the vicinity of Oconomowoc and Watertown, to three or four growers who possess the secret of right methods and are able to achieve results which warrant them in displacing roses and devoting their entire suitable bench room to this diminutive flower. The two growers whose perspicacity enabled them to comprehend the future of the violet and whose correct culture has done much to raise the flower in popular favor and bring their locality into prominence are Otto Sylvester, of Oconomowoc, and Loeffler Bros., of Watertown. August Schuenemann, of Oconomowoc, is also well to the front.

So well have these gentlemen grown the violet among the little lakes, so popular as summer resorts, that in both Chicago and Milwaukee the request of many purchasers is for Oconomowoc violets, and so frequent has this call been that it has tempted dealers to send out good flowers from other localities as the Simon-pure article. At last Easter one Chicago florist handled 6,000 of Sylvester's violets at excellent prices, and so well have the crops of recent seasons averaged that many growers are studying Oconomowoc methods and doing their best to reach an equally high standard.

Quite early in the investigation of the processes by which Oconomowoc violets reach their perfection it becomes evident that the results are largely due to the personal accomplishments of the successful men, for many growers of less experience and skill have embarked in violet culture there without attaining noteworthy results, but the natural conditions are such as to render much valuable assistance. The district is full of small lakes and springs, the hills are gravel and the low places of a sandy loam in which one need not dig far for water. Although the light surface appears to be as dry as most soils during the summer, there is a moisture beneath that prevents the roots from being parched and in fact causes them to grow deeper than is usual. Close observation has shown that the young plants which are set out the earliest in spring are the best, which is, no doubt, due to the fact that they make root before growth of top is caused by warmth.

Although the soil is fairly rich it requires a small quantity of fertilizer and with it makes a fine growth, but never rank. The plants make abundant roots, which lift without breaking. Mr. Loeffler lifts plants with a ball of root as large as the whole top. Eight plants laid on a flat are enough to carry in and plant on the bench at a time. Mr. Sylvester states that he usually cuts some of the roots off, many runners being started at this time. He cuts off all but the very strong ones, going over each plant as carefully as one does a chrysanthemum at disbudding. The soil for benches is mixed, using about one half from the field in which they are grown and the balance decayed sod, so that when the plants are set on the benches they have heavy roots with porous soil and fibre in which the young roots can easily penetrate, being insured air.

At the period of benching the tufts are close jointed and appear to have much stored energy with abundance of root to maintain any development which might be induced by future treatment. They are freely watered at first at both foliage and roots, but after the first danger of wilting is over, care is taken to keep the foliage dry and to see to it that when watering is done the soil is thoroughly moistened. A temperature of 40° to 45° is desirable. The manipulation of air appears to be a vital point. Mr. Sylvester noticed that violets in the larger houses did better after Christmas than those in the older and smaller houses. During the early part of the winter the difference was less marked. The larger houses are short-span-to-the-south and have three benches. Mr. Sylvester found that violets did much better on the north bench than on the south so that he now grows his carnations on the latter and finds the plan to work quite satisfactorily. He has just completed a range of three new houses which embody the many points he has ascertained by experience. They are even-span, run east and west, and have a double row of ventilators. The roofs are quite high so that the houses contain a large volume of air. The illustration on the next page shows one of these houses in which the center bed is freshly planted.

Mr. Sylvester does not favor taking up his plants until after cold weather, and he takes up all of an even size for one house and another size for the next and so on, not mixing them up. Mr. Loeffler prefers taking them up earlier, provided ventilation can be managed properly. He goes still further and says that they intend to arrange a new house next spring with ventilation so constructed as to permit of benching the young plants in spring. Mr. Sylvester's houses are 65 feet long and he picked 4900 blooms from one of his north benches in one day just before last Easter. He shipped 14,000

blooms that day. This winter he will have 35,000 feet of bench surface devoted to violets. Loeffler Bros. shipped 100,000 blooms last year from 2400 plants; they have 3000 plants this season. August Schuenemann has 1200 plants. Lewis Turner, of Kenosha, says he procured his stock one season of Loeffler Bros. and had much better success the first year and partly so the second, which tends to show that it would pay to have stock raised in this locality for blooming elsewhere.

C. B. W.

THE VIOLET DISEASE.

ED. AM. FLORIST:—The leaves of my violet plants are disfigured by small brown spots which gradually turn white and fall out. Please let me know the cause and what to do for it. SUBSCRIBER.

The violet leaf spot, Cercospora Violæ Sacc., as the common name suggests, causes the foliage to become more or less covered with circular spots. There are several fungi causing the spotting of violet leaves, but the cercospora can usually be detected by the dark center of the spot due to the multitude of spore-bearing threads that are brown colored. Black molds of various kinds often flourish upon the dead tissues of the spot and greatly change its appearance.

Another spotting of the violet leaves is caused by another fungus, namely, Phyllosticta Violæ Desm., of a quite different type from the one above mentioned. By the naked eye, when carefully inspected, the phyllosticta spots are seen to have no dark central area, but scattered over the brown spot are minute dark specks in which the spores are borne. The cercospora spot has the spores on minute aerial branches, but in the phyllosticta spot the spores are formed within flask-like bodies and ooze out of the open neck when mature. Similar to the phyllosticta are a number of other violet parasites, as Marsonia Violæ Sacc. Besides these there are some fungi which cause blotching of the leaf and a general collapse of the whole plant. For example, there is an anthracnose, gloeosporium, of the violet similar to the one mentioned upon the rose. There is a bacterial trouble also, so that the violets are fully supplied with fungus parasites.

The conditions which are provided for the best growth of greenhouse plants are those that favor the development of the fungus enemies. As a rule they thrive best with plenty of heat and moisture; therefore a greenhouse, other things remaining equal, will be the place where blights of all sorts may be expected. It is well known that the means of propagation is through the transfer of the fungus itself or its spores produced in countless numbers. The preventive measures are, first, to start new plants with healthy stock either from seed or slips free from the disease; second, to prevent the germs of decay from entering the healthy plants, and third, if they are present to check their growth as much as possible.

Strong healthy seed is a very important starting point, the necessity of which is not always fully realized, but this is not the time to dwell upon this fact. In like manner cuttings should be from the best possible stock. If the seed and the slips were healthy, the only point necessary for continued vigor would consist in keeping out the germs and surrounding the plants with the best conditions for growth. The latter the propagator is supposed to do. The germs enter from he soil or the air or both. Care should be exercised that the seed bed be germ free, and to this end the woodwork of the greenhouses needs to be fumigated and cleaned as frequently as possible. The soil is a ready receptacle for receiving spores and soon gets charged with them, therefore a frequent change of soil is important.

After everything has been done along a sanitary line for the good health of the plants, namely, the use of healthy seed in healthful surroundings, there are some matters that still may need attention. Fungicides have their place in the greenhouse as well as in the orchard and garden. There are a few germ destroyers that when properly used have paid handsomely.



MOOERN VIOLET HOUSE OF OTTO SYLVESTER, OCONOMOWOC, WIS.

In the Bordeaux mixture, freshly slaked stone lime is combined with sulphate of copper and applied as a thin wash with a spraying pump. The formula is five pounds each of the lime and sulphate of copper to fifty gallons of water. The milk of lime may be made up and kept in stock, to which the sulphate of copper, also kept in solution, may be added as desired for spraying. The chief objection to the use of Bordeaux mixture in the greenhouse is the bluish lime coating it gives to the plants. On this account cupram is better. The formula for this latter is five ounces of carbonate of copper dissolved in three quarts of strong (4 F) ammonia, to be afterward added to fifty gallons of water. A convenient way to keep this compound is in the concentrated solution in a well corked bottle. Thus a bottle holding the three quarts of ammonia can receive the five ounces of copper and stand ready for use, it being necessary only to pour out an ounce for each gallon of water used for spraying. These two fungicides are the chief ones that can be recommended for fungus troubles of the violet.

BYRON D. HALSTED.

CHATTANOOGA, TENN.—The new greenhouse at East Lake Park has been completed. It is 65x180 and affords ample room for the large collection of plants and accommodations for propagating bedding stock.

CARNATIONS.

CULTURAL NOTES.

October 15.—If your houses are all planted, the plants neatly tied up, and there are no weeds to be seen on the benches or beds, then you may consider yourself in pretty good shape for some time to come but if these things have not all been attended too you should make haste.

Another thing wanting attention now is the heating part of your establishment. See to it that everything is in smooth working order, ready for firing on short notice. There are usually a few nights during the month of October when firing is a necessity and they are liable to come very unexpectedly. I have said this before but it is so often overlooked that it will bear repeating. A good rule to follow for fall firing is to start the boiler whenever the temperature drops below 40° outdoors. If the houses get too warm with the fires going during such a night do not stop the heat; instead, put on a little ventilation and the results attained will more than pay you for the little inconvenience this irregular firing may cause you. It is not absolutely necessary that after you once start the fires they must be kept going all the time, no matter what the state of the weather, but it is well to bear in mind that after you have fired up for a few nights the plants will be more quickly injured by cold than before, and care must be used to see that they have heat on all cool nights afterward until regular firing begins.

Chrysanthemums are now asserting themselves and the carnation growers who look after their own best interests will not encourage a full crop of bloom on their carnations during the height of the chrysanthemum season. It is asserted by some that chrysanthemums are on the wane and possibly they are not quite so popular as they were a few years back, but if you expect to sell a heavy crop of carnations between now and November 20, and realize a fair price for them you are going to be very badly disappointed.

If your carnations are nicely started and are coming into bloom it will be necessary to do some topping to avoid a heavy crop and now is the time to do it. If it is done intelligently it can be done very quickly and be but a small item of expense. Go over the houses and cut out all but two or three of the best buds on each plant. These two or three that you leave should be in different stages of development so that they will come in for cutting at different times, but they should be the healthiest and most promising buds. Those that you cut off should be cut down to the first good vigorous side shoot on that branch. This topping is a matter that requires considerable skill and judgment to do it in such a manner that you will get the most benefit from it and should not be done by any but a good man or, better yet, by yourself.

There are a number of advantages to be derived by this method of culture, the chief of which is that you get during the chrysanthemum season all strictly first-class blooms which will find buyers, no matter what other flowers may be in the market, and buyers who are willing to pay a fair price. Aside from this you are, by reducing the flowers allowed on each plant to two or three, giving that plant more strength to produce a fair crop for the months of December and January than if you allowed all the buds to develop that are now coming on. Thus

you get a double benefit, first by having good salable flowers when the demand is slack and again by having better flowers and more of them when the demand is at its height.

In this topping of carnations in the houses you will, however, have to be careful that you do not overdo it and thus get your crop in a week or two too late. This can easily be regulated with a little attention to the quickness of a variety coming into bloom. There is no variety that will not be bettered by taking off all of the buds that are showing now excepting the few you want to leave for blooms. Some varieties will, however, want to be left alone after the first topping, while others that come quickly from a shoot into an open flower can be topped to advantage as late as November 1.

If you are in any doubt as to the wisdom of this doctrine try it with a small number of plants, and see if they do not make you more money for the same amount of ground by January 10, than do those left to take their own course.

At a meeting of the American Carnation Society, I think it was in Boston, several of the best growers said in reference to disbudding that the grower who did not disbud was no longer in the race and that they fully believed that the day was not far distant when the successful grower would not only disbud, but would cut and prune his plants as well, in order to throw additional size into his blooms and length and strength into their stems. I fully believe that day is not three years off from this season and that the man who practices this method now is going to be just a step or two ahead of his competitors in what promises to be an overcrowded market.

ALBERT M. HERR.

INDOOR CULTURE OF CARNATIONS.

Owing to the remodeling of five of our largest houses the past summer, we were unable to carry out our intention of growing our carnations inside the present season. It is, however, our firm conviction at the present time that the indoor culture has almost every point in its favor, and we believe that it is only in the most favorable seasons that carnations can be grown in the field and lifted in August and then compare favorably with the indoor stock which has met with no check, has been correctly watered, and has been shielded from sun and hot winds, as well as from the cold rains which often visit us late in the summer.

We believe that it is possible to grow carnations absolutely free from rust, as well as from most of the other diseases to which they are subject, by keeping them indoors, while it is impossible to do this with outdoor stock in unfavorable seasons. The sum of the whole argument is the one fact that the grower has an almost perfect control of the stock when planted in, while when planted out he is absolutely at the mercy of an adverse growing season. This does not imply that reckless, careless or slovenly indoor methods will produce good results. Your house must be airy, your soil properly mixed, cuttings good, and plants set early. You must have arrangements for abundant air, be willing to shade when necessary, to mulch during a long heated term; in fact you must be willing to give as much patient care and attention to your carnations as you have found by experience is necessary for your roses. The grower who does this will be repaid by his early crop of first quality bloom and will not have to see, with chagrin, valuable greenhouse space bringing no adequate return during the closing months of the year, and the Christmas crop frequently not making its appearance until late in January.

I know that there are a few good growers who, in favorable seasons, produce equally good results with outdoor stock. Their plants were set out early in April; they missed a serious and long-continued drought, growth was nicely completed when the plants were housed in August and the stock was in condition for producing bloom. But in the great majority of cases matters work in the opposite way; a late wet spring retards planting, conditions are not favorable to growth, and half matured plants are housed in September and occupy valuable room, making their growth at a time of the year when space means the most money, and for which they never make adequate return.

During the past summer it has been my privilege to see carnations grown inside that were pictures of health and of fine size; we really envied the owner, for they spoke of grand results in bloom at an early day. Fortunately for us Hoosiers, we have had a fine season for growth outdoors, the best in years, and carnations have lifted with hardly a check.

E. G. HILL.

PLANTS IN POTS.

Plants of medium size are best adapted for sale in pots, and the varieties of short, stocky growth are much the better for this purpose. Use 5-inch pots and a good, live, porous soil with a little sharp sand mixed in. Give the plants plenty of drainage and when potted remove all the discolored leaves. Stake them up at once; about the neatest way to tie up carnations in pots is to use one stake in the center of the plant and draw each shoot up to it with some very thin material, but do not bunch the plant too close, just enough to hold the shoots upright. After the plants are tied they should be shaded for a few days until the roots are started.

The proper place for them now is in a cold frame, where there is enough head room with free circulation of air to prevent damping of the foliage. They can remain here until severe weather sets in when they should have a place where the temperature is kept above the freezing point, that is if the plants are not all wanted for sale at the same time. To prepare the plants for sale place them in the regular carnation temperature of from 52° to 54° at night about ten weeks before the time they are wanted. Of course some varieties will come along much faster than others.

While being held in the cool house the plants should be very slightly dry but as soon as placed in a higher temperature they will require plenty of moisture and occasionally liquid manure. When a carnation plant is well grown with six or eight open flowers and plenty of buds it will meet with a ready sale, but such stock as we often see, tall, ill-formed plants, covered with yellow leaves, with a bursted flower or two, is enough to debar the carnation from usefulness as a market plant.

C. W. JOHNSON.

CHRYSANTHEMUMS.

NOTES ON VARIETIES.

Nyanza, planted June 20 from 2-inch pots, are at this date, October 11, three feet ten inches high. Terminal buds taken September 20. The accompanying cut gives a good idea of the advancement they have made. Georgiana Pitcher, planted the same date, four feet high, terminal buds taken September 20, are now showing color.

Geo. S. Kalb, Glory of Pacific and Marion Henderson, planted in open frames outside are nearly ready to cut. The same varieties under glass are showing considerable color, but will be ten days later. Among other early varieties Mme. F. Bergmann is nearing perfection and Harry Hurrell, Miss Gladys Vanderbilt (new) and Mrs. A. F. Wienold (new) are well along in color.

The names applied to the two cuts in last week's issue were transposed; Thornden should be Autumn Glory and vice versa.

ELMER D. SMITH.



CHRYSANTHEMUM NYANZA SECOND WEEK OF OCTOBER.

Begonia Cuttings.

ED. AM. FLORIST:—In making cuttings of flowering begonias, is it preferable to cut all such just below the joint, or is it a matter of indifference whether they are cut above or below the joint? X. Y. Z.

I think all gardeners instinctively cut just below the joint in making cuttings of flowering begonias, as well as most other soft-wooded plants. I should much prefer to have such cuttings, but in a case of shortness of stock I should not hesitate to cut to one eye, keeping the propagating bench on the dry side to prevent the rotting of the cuttings. C. E. HUNN.

In reply to the inquiry of "X. Y. Z." as to the best way to make cuttings of flowering begonias, I would say that, presuming he has reference to such species as B. insignis, B. rubra and B. Weltoniensis, those that are considered and spoken of as shrubby begonias, there is no doubt that it is essential to make cuttings with a joint for the base. The very succulent nature of their growth would indicate the necessity for so doing. Propagators all realize that while some cuttings, as in the case of coleus, will make roots from any portions of the stem, it is best on principle to cut all off at a joint, for many have the tendency to rot up to a joint and the decay does not always stop there, but takes the whole shoot if once it sets in or the conditions are not the best. Anyone who has made geranium cuttings will understand this. When a lad the instructions were to always take off the two stipules that occur at each joint, for if left on, it was said, decay was much more probable, and if not cut close below a joint it was inevitable. If the inquirer alludes to such as are called tuberous begonias, it is even more essential that a joint be left for a base, as this forms a callus, and this in turn changes with enlargement to a true tuber for the perpetuation of the kind.

E. O. ORPET.

Replying to "X. Y. Z.," I have not experimented with cuttings of begonias with the object in view of determining if it made any difference whether cuttings were cut just below a joint, feeling contented that it makes no essential difference to the future plant where the cut is made. In the tuberous section it may possibly make some difference, though about this I am not at all certain. My impression is, without positively knowing what the result would be, that it is safer to cut just below a joint in the preparation of slips to increase the stock of an especially good variety among the tuberous rooted kinds, because it is a generally accepted belief among the fraternity that there is more likelihood of the formation of a crown of living eyes when a cutting of a tuberous rooted plant is cut at or immediately beneath an eye than at any other point on the shoot. In the semperflorens section of begonias, of which perhaps the hybrid Erfordii (Vernon × Schmidtiana) is one of the best examples, the selection of cuttings must be made with some discrimination, that is to say, a growth bud at the base of the cutting at the axil of the leaf should be at all times in sight if we would desire the very best results, otherwise the plant, so far as I have been able to observe, will go on growing and blooming, making only one spindling shoot and maturing nothing from which to continue the plant if the warning advised is unheeded, for we cannot hope to perpetuate this valuable hybrid from seed from its own flowers, as it rarely or never comes true from seed produced in that way. At this moment I cannot recall any other species or varieties of begonia which require the same precaution in propagation. This may not be in the nature of a reply to the question asked, nor yet germane to the subject under consideration, but it may be of some interest to at least a few of your readers. E. L.

[The replies to this question are, respectively, the opinions of an experiment station horticulturist, a private gardener and a commercial grower.—ED.]

A Gigantic Bay Tree.

The bay tree, or Laurus nobilis, has become quite a popular decorative plant in America. It has been grown in Belgium in enormous quantities for a considerable period by the nurserymen there, but only within the past few years have the exportations increased to such an extent that every prominent florist in the States uses them for decorative purposes. In the early spring quantities now find their way to this country and are used most extensively for exterior decorative purposes.

Standards are especially in demand. Pyramids do not seem to sell so well. The reason for this may be that this is a great water loving tree and the pyramids are more apt to suffer from lack of attention in this regard, as the lower branches surrounding the tub prevent rain or water from overhead from reaching the soil, consequently many of them have been lost from this cause. During the hot summer season they should be watered thoroughly twice a day and a rainstorm should not interfere with this rule. Wherever possible the tubs should be plunged in the soil during the summer. The rays of the hot sun on the side of the tub are very injurious to the roots.

The majority of the bays that are shipped to this country are cultivated in Belgium. Although Ghent is a familiar name to most of the nurserymen here as the great horticultural center of Belgium, nevertheless the bay is not grown there in such enormous quantities as at Bruges, which is some thirty-five minutes' ride from Ghent. There the bay tree finds its home, thriving in all stages of development, and there are seen trees of gigantic proportions that cannot be found elsewhere in all Europe.

The bay tree here illustrated is one of the numerous gigantic specimens grown in Sander's nursery at Bruges. It is sixteen feet high, seven feet through the



A GIANT BAY TREE.

crown and is one of the finest specimens in cultivation. In this nursery will be found some hundred thousand trees in all stages of growth. In winter they are transferred from the open to a huge shed, 500 feet long, 40 feet wide and of great height. Two or three rows of pipe run the entire length on either side, enough to protect them from the frost. It is well known that the trees will not suffer if subjected to several degrees of frost, but it is always considered best not to expose them even to that.

Most of our readers will recognize the gentleman in the picture as Mr. Alfred Dimmock, the enthusiastic representative in America of the Sander establishment.

New York.

AN INTERESTING CLUB MEETING.—MR. HALLOCK'S IMPRESSIONS.—A BOWLING TEAM TO BE FORMED.—REGULATING THE STEAMER TRADE.—PLANT TRANSPORTATION.—STATE OF TRADE.—DULL BUSINESS.—THE NEW RED ROSE.—GRAFTED STOCK AT WEST HOBOKEN.—A VALUABLE CATTLEYA.—NOTES OF THE WHOLESALERS.—MANY NEW ESTABLISHMENTS AND LOCAL BUSINESS CHANGES.—VISITORS.

Mr. E. V. Hallock entertained the Florists' Club on Monday evening with an account of some of his experiences and impressions during a recent trip to Europe. Mr. Hallock's easy manner and pleasant ways captivated his audience at once and their enjoyment of his many pertinent allusions was manifested in frequent bursts of applause. A summary of his observations was that a young man of ability and pluck going into business has a much better chance for success in this country than in Europe. He spoke in high praise of the Botanical Gardens of Belfast and Dublin, also the horticultural work about the hotel where he stopped at the Lakes of Killarney. Kew Gardens and Covent Garden Market were graphically described, also some of the English parks which, however, he said did not compare in his estimation with our own. He noted a striking difference in taste in and about the flower marts of London and Paris and compared them greatly to the disadvantage of the former. An enthusiastic vote of thanks was given Mr. Hallock at the conclusion of his remarks and an animated discussion of some of the points brought out, followed, during which Mr. J. N. May called attention to the great disproportion between wholesale and retail prices on flowers and fruit in this country and asserted that the consumption of these goods might be enormously increased if the retailer could be induced to accept a smaller percentage of profit and thus place these things within the reach of the masses.

Previous to the lecture considerable discussion was created by the recommendation from the trustees in favor of a weekly bowling meeting as an adjunct to the club. The question was debated by Alderman Morris, Messrs. O'Mara, Burns, Stewart and others, Mr. Morris taking the stand that the club could not consistently appropriate money for bowling without also doing so for bicycling, boxing or any other athletic exercise which certain members might prefer, but the matter was finally settled to the satisfaction of everybody and New York will have a bowling team. Another matter considered was that of an arrangement whereby the steamship companies would give receipts for all flowers delivered to their care by florists for passengers, and a committee was authorized to take the subject in hand. Mr. O'Mara also called attention to the clogging of the wheels of plant transportation through the enforcement of the laws regarding the inspection of nursery stock, whereby shippers of florists' plants are frequently embarrassed, although their goods are by law exempt. He advised that all shippers of florists' stock should have this fact plainly designated on their labels as much delay and loss might thus be avoided. On the exhibition table was a vase of Ernst Asmus' new rose Liberty and a splendid Cattleya labiata from the Rosary, which has been named Mrs. Clarence H. Mackey.

The flower trade as viewed from the standpoint of the grower or wholesaler is exceedingly poor this week. Last week it was bad, however viewed. Roses are just beginning to recover slightly from the enervating effects of last week's heat and rain. Mildew is seen more or less and American Beauty shows here and there the ravages of thrips. But the lightness of the demand is the most disquieting feature and it is plain that if a heavy crop were on just now, conditions would be as discouraging as at the corresponding date last year and the year previous, which were record breakers in this line. Violets are getting quite abundant and chrysanthemums are also beginning to assert themselves. Carnations are on the increase daily. Cattleyas have come in so heavily recently as to break down prices nearly one-half. There is entirely too much lily of the valley in the market at present.

The coming sensation in the rose line is Ernst Asmus' Liberty. This rose Mr. Asmus pronounces the finest introduction of the century, of its color. The color is lighter and brighter than Meteor, both form and color rivalling Jacqueminot at its best. Mr. Asmus has three houses of Liberty and will introduce it in 1900. Its appearance growing leaves nothing to be desired, its capacity for blooming being really phenomenal. If it keeps up its present gait, the Meteor is doomed. Mr. Asmus is trying a house of second year Beauties. They are apparently a success, for a heavy crop of long stemmed flowers is now coming on although the plants have borne steadily all summer. His success with grafted Brides and Bridesmaids is not especially marked, the own root plants looking as well as those grafted and the latter showing considerable small wood, which is directly the reverse of Mr. Montgomery's experience. Evidently it is partly a question of soil. One house of chrysanthemums is the extent of Mr. Asmus' investment this year.

Probably the first pure white Cattleya labiata ever flowered in this country bloomed recently among a lot of imported plants at Julius Roehrs'. This valuable find was quickly secured for the Roebling collection at Trenton and Mr. Roehrs, bank account is noticeably swelled in consequence. There may be seen now at Mr. Roehrs' as many as a thousand cattleya blooms at once almost any day.

James Hart, New York's oldest commission man, is dissatisfied with present conditions. He says he had money to burn last year but "is poorer now than he has been for twenty-five years." There is a bit of a twinkle in the corner of J. H.'s eye as he tells this.

Dards had one of the biggest decorations on Wednesday that New York has seen for many a day, for the wedding of Miss Wetherbee, daughter of the proprietor of the Buckingham Hotel.

John Young is receiving some unusually fine lily of the valley from Carl Jurgens which sells for more than double the price of the ordinary brand; the latter, in fact, is hard to sell at any price. With lily of the vally, as with everything else, there is always room at the top.

M. A. Hart has the windows of his wholesale flower store filled with geraniums and jardiniere ferns for which there is a ready sale, even when the flower trade languishes.

Benj. Dorrance is sending to Thos. Young, Jr., from Dorranceton, Pa., heavy consignments of roses in several varieties which are of unexcelled quality for the season. Meteors are especially fine.

Sherry's magnificent restaurant and assembly rooms were opened on Monday, October 10. The plant decorations by A. Wadley are grand. W. Lee has charge of the floral department.

George Schubert has devoted his entire establishment at West Hoboken to small ferns for jardiniere planting. This small fern business has assumed enormous proproportions within a very few years.

At J. K. Allen's chrysanthemums are gradually pushing the dahlias back into the corners and it will be but a few days when the chrysanthemums will be in full control.

On Monday, October 17, Decker & Blauvelt will open their new wholesale and commission cut flower establishment at 42 West Twenty-eighth street.

Mrs. Keyser, daughter of President Plumb, of the New York Florists' Club, returns to her home in Chicago on Thursday after a six weeks' visit to New York.

G. W. Hillman, of the John Henderson Co., is acting as manager of the New York Cut Flower Co.'s wholesale rooms on West Twenty-third street.

Chas. Haberman has opened a new flower store on the northwest corner of One Hundred and First street and W. Boulevard.

J. J. Perkins & Co. now occupy a portion of Koffman's store at 52 W. Twenty-ninth street as a cut flower commission house.

H. A. Hoffman, who was formerly in the commission business, has taken a position with J. K. Allen.

Fleishman is advertising his recently acquired and gorgeously equipped branch at the Empire Building Arcade for sale.

John I. Raynor celebrated the tenth anniversary of his wedding on Monday evening, October 10.

John S. Nicholas has opened a handsome flower store at 37 E. Forty-second street.

Visitors in town: W. A. Houck, representing Ellwanger & Barry, Rochester, N. Y.; Thos. A. Galvin, Frank Haughton and Thos. Clark, Boston; Carl Jurgens, Newport, R. I.; Wm. Griffin, Lenox, Mass.

Philadelphia.

CHRYSANTHEMUMS ARE SLOW IN PUTTING IN AN APPEARANCE.—MARKET CONDITIONS.—NEXT TUESDAY'S SHOW.—MRS. HEACOCK MEETS A FALL.—NOTES.

Every day this week the early chrysanthemums have been expected but up to Wednesday Lady Fitzwygram and Montmort are about the only varieties in sight. The latter are very good and come from Jacob Becker. The vacancy, if any existed, is more than filled with cosmos, which is being carted around in wagon loads. Beauties are becoming more plentiful but there are comparatively few thoroughly good flowers. Teas are still improving. Carnations are coming on a

little too fast and much of the stock offered remains unsold. Flora Hill makes the best showing but a defect is noticed in this variety when left to open too far. The stamens become covered with a brown pollen which makes them very noticeable and gives a vase of flowers a brownish cast or faded appearance. Victors look well but are still as light as good Daybreaks, which, in turn, are a soiled white. Double violets are coming in from all directions and are improving with every shipment. The first southern stock was offered by Ed. Reid, and was very good. George Moss was first with mignonette, and the spikes are good for the season. Asparagus Sprengerii is now in stock at all times, several of the growers having it in quantity.

S. S. Pennock has his new addition under roof and the new refrigerating plant will soon be completed. Mr. Pennock's stock is wonderful in quantity and variety. He is handling the best Beauties that come to the city.

The exhibition of the Chrysanthemum Society of America next Tuesday will no doubt bring out all the early new varieties. Those intending to exhibit should send the flowers to David Rust, Horticultural Hall, Broad street, Philadelphia, where every facility for handling and caring for them will be afforded.

C. H. Rooney, late manager for James Boyd, Harrisburg, Pa., and later with Robert Craig & Son, has accepted the position of superintendent for A. L. Thrall, Jamestown, N. Y., who has just erected a fine plant.

Mrs. Joseph Heacock met with a painful accident last week in which her right arm and a small bone above the ankle were broken. Mrs. Heacock lost control of her bicycle while going down hill.

H. Bayersdorfer & Co. have had their entire force working until ten or eleven o'clock at night for the past three weeks to keep up with their orders; their shipping trade is the best they have ever had.

K.

Chicago.

THIS IS THE DAY OF THE CHRYSANTHEMUM.— STOCK CONDITIONS.— FLORISTS' CLUB MEETING.— BUILDING NOT YET SECURED FOR THE FALL SHOW.—W. N. RUDD TO SUPERINTEND.—EDGAR SANDERS' ANNIVERSARY.—WHAT WITTBOLD IS DOING.—A BUSINESS CHANGE.—BRIEFS.

This is the season of the chrysanthemum and such early varieties as Fitzwygram, Robinson and Merula were this week reinforced by blooms of Mme. Bergmann, Mrs. Whilldin, De Montmort, Midge and Glory of Pacific. Some splendid flowers were in and sold as high as $3 per dozen although most of the stock went for half that. Poehlman Brothers had twelve houses of chrysanthemums, one of which has already been emptied and is being replanted with violets. Next week will see a great increase in the cut, which is this year something like two weeks later than last.

Roses have not been over abundant and fine flowers are scarce. First-class flowers have brought first-class prices and the prospects are that next week's Peace Jubilee will see very brisk demand for good stock of Beauty, Bride, Bridesmaid, Perle, Meteor and Kaiserin. There will be a large supply but too many flowers which can command only second grade prices.

Carnations have deluged the market but no good flowers have been sacrificed. Some growers get $2 a hundred for their entire cut while the crop of others does not average 50 cents.

At the last meeting of the Florists' Club C. Cropp and Jos. Stanford were elected to membership. The evening was made memorable by E. Buettner's account of the things floricultural which he observed upon his recent tour of Germany and the discussion which followed his remarks. Mr. Buettner made a strong point of the fact that Germans make a greater use of outdoor flowers than do we and that they show in their stores many tasteful bunches and baskets ready for sale. He pointed out that Europeans employ a greater variety of flowers and devote more attention to window display than do Americans and suggested several points which were commented upon by Messrs. Wienhoeber, Hauswirth, Swenson and others as being of value to our retailers. New officers will be elected at the next meeting of the club, October 21.

The quarterly meeting of the Horticultural Society was held October 8. The treasurer reported $2,500 on hand and the executive committee formulated plans for the approaching chrysanthemum show. The Edson Keith building at the corner of Wabash avenue and Monroe street was considered for the show and is admirably located and suited for the purpose. It is now occupied and at this date it is doubtful whether the society will be able to secure it. W. N. Rudd will be superintendent of the show and E. G. Uihlein, J. C. Vaughan and Phil. Hauswirth have been delegated to secure special premiums.

On Monday evening last Edgar Sanders, Chicago's pioneer florist, entertained a dozen of his friends in the trade at a dinner at the residence of his daughter, Mrs. H. P. Victor, 1639 Belmont avenue. The rooms and hallways were very beautifully decorated with American Beauties, palms and ferns. While at table the guests were very pleasantly surprised to learn that the occasion was the celebration of Mr. Sanders' seventy-first birthday. The bountiful spread having been thoroughly enjoyed, congratulations on the happy occasion were in order and recollections of early days in the retail plant trade, cut flower and decorative work were indulged in. Messrs. Sanders, Wienhoeber, Dressel and Hanswirth all contributed entertaining reminiscences. A very interesting half hour was spent in Mr. Sanders' library, where he has as good a collection of horticultural literature as can be found in America, and a very complete record of the early history of horticulture and floriculture in Chicago. Later Mr. Sanders' granddaughters, Mr. McKellar and others entertained the company with musical selections, while Mr. S. himself showed how lightly he carried his three score and ten years by songs and recitations. A little song of his composition, adapted to the tune of an old English jingle, "The Old Musician and His Harp," was much enjoyed. We give a stanza with chorus:

THE FLORIST AND HIS SPADE.

Years have come and passed away,
Silver locks have turned to grey,
Time has changed since boyhood days
When youth and hope swayed all my ways.
Now my work is on the wane,
You all can see it very plain—
Soon I'll be where good florists roam,
Dear old friends I'm going home.

Chorus—

Bring me back my spade once more,
Let me try its magic power;
Soon I'll be where good florists roam,
Dear old friends I'm going home.

One can partially realize Mr. Sanders' long career in floriculture by reading an ancient printed poster which was shown announcing a lecture by him in his English home town in 1850. Since then what a marvelous growth he has seen in floriculture in the west, and what a long, honorable and active experience has been his through these many changes! Although for a season, half a dozen years since, he was practically out of it, his more recent active newspaper work in the trade has apparently renewed his horticultural youth, and his friends as they bade him good night could well and hopefully wish him another twenty years of up-to-date work.

George Wittbold has just completed a very fine conservatory 36x95 and another palm house 19x100. In the larger structure there are no benches and the floor is of cement. It affords an excellent opportunity to display tropical plants. Mr. Wittbold has just received a large importation of araucarias, kentias, arecas, latanias and other stock from Belgium. He is at present adding to his heating equipment a large hot water boiler built upon plans originated by Henry Wittbold and patented some years ago.

In Mr. E. G. Uihlein's collection at 34 Ewing Place there is now flowering freely a plant of Acalypha Sanderi, a novelty which certainly merits all that has been said in its favor of late.

Frank Oechslin & Bro. have bought from August Decker the old Garfield Park establishment at 1688 West Madison street and will continue the business at that number. Mr. Oechslin and brother were formerly growers for J. F. Kidwell, Frank having been foreman at this place since its establishment.

Commissioner McGann on Wednesday barred State street to all fakirs and now the curb-stone gentry are either out of business or operating in less populous neighborhoods.

The new houses of the Chicago Carnation Company are now well along toward completion, and all the plants look well, most of them being benched.

Charles H. Allen, of Floral Park, N. Y., called on his usual fall trip and left for Detroit Thursday night.

The Lincoln Park commissioners have asked for $20,000 with which to rebuild the propagating house.

A. G. Boehringer, of Boehringer Bros., Bay City, Mich., was a visitor on Wednesday.

Baltimore.

TRADE IS BRISK.—STOCK INCREASES IN QUANTITY.—MR. VINCENT TELLS OF HIS WESTERN TRIP.—NOTES.

Several weddings in the early part of the month have given a decided impetus to business, and the retailers are once more quite busy. The Autumn Queen and airy cosmos are again seen in the store windows. Beauties, Brides, Bridemaids and Perles, are offered in increased quantities and are bringing fair prices. Violets made their first appearance this week and sold well.

The Gardeners' Club held its regular meeting on October 10 with a fair attendance. Richard Vincent, Jr., gave a very entertaining description of his visit to the Omaha convention. His second exhibit of dahlias was especially fine.

W. Paul Binder has been very ill of heart trouble, but his condition is much improved. The affable M. Rice, of Philadelphia, visited our city this week.

A. R. J.

LONDON, ONT.—Andrew Wildasin has arrived home from Santa Fe, N. M., where he has been for several months for his health.

THE AMERICAN FLORIST

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THE florist who has lost any valuable stock this autumn by frost can have no excuse, for never in recent years has the frost held off so late as this season.

IT seems a strong argument in their favor that the flowers of carnations grown constantly under glass now bring $2 per 100 where those of plants grown part of the season outdoors bring only 50 cents, and most of the growers who have tried it are of the opinion that the former is the more economical method of cultivation.

Henry F. Michell.

H. F. Michell was the hero of the occasion at the last monthly meeting of the Florists' Club of Philadelphia. His side remarks during the reading of his essay on his European trip were the most enjoyable part of it. His naive contrasting of the way Hyde Park in London and all the other public parks in Europe are patronized by the highest society and the low estimate our elite have of, say Fairmount Park in Philadelphia, a much grander pleasure ground, brought down the house. Harry was surprised to learn that it was not considered good form in polite society to go to Fairmount Park! It was a pleasure to hear this bright young business man so well spoken of after the meeting was over and the members got to chatting in groups. That he has built up a fine business in the seed trade under the conditions prevailing in recent years and the fierce competition of the old established firms in Philadelphia is no mean accomplishment, and the achievement is heartily recognized.

G. C. W.

Greenhouse Building.

Hartfield, N. Y.—A. T. Baldwin, one greenhouse.

Flushing, N. Y.—H. C. Rath, one commercial house.

Providence, R. I.—L. Arnold, one greenhouse.

Baltimore, Md.—M. Rein, one greenhouse.

New Canaan, Conn.—H. M. Woundy, one commercial house.

Cleveland, O.—Smith & Fetters, one conservatory.

Springvale, N. Y.—Geo. Staffinger, one house 20x60.

Bristol, N. H.—Fellows Bros., five houses, each 18x100; one 18x55.

Montpelier, Vt.—E. Jacobsen, one commercial house.

Middlebury, Vt.—Hunt Bros., one commercial house 50 feet long.

Muscatine, Ia.—George Kranz, one greenhouse.

Clinton, Ia.—Andrew Bather, addition to present establishment.

Catalogues and Cut Flower Price Lists Received.

Mrs. M. E. Patterson, Glendale, Cal., cacti; Harlan P. Kelsey, Boston, Mass., plants; Standard Fertilizer Co., Philadelphia, Pa., fertilizers; Isaac Hicks & Son, Westbury Station, N. Y., trees and shrubs; Chicago House Wrecking Co., Chicago, Ill., second hand material; Milford A. Russell, Highlands, N. C., shrubs and plants; Morris Nursery, Bowie, Tex., trees and shrubs; Henry W. Gibbons, New York, N. Y., portable greenhouses; Soupert & Notting, Luxemburg (Grand Duchy), roses; Cincinnati Cut Flower Co., Cincinnati, O., cut flowers; S. S. Pennock, Philadelphia, Pa., cut flowers; W. A. McFadden, Cincinnati, O., cut flowers; Welch Bros., Boston, Mass., cut flowers.

Philadelphia Club Room Echoes.

Robert Craig: "Yes, sir! Herbert Spencer is the greatest intellectual force of the age. He believes in sentiment and enthusiasm, but also believes that mankind is admirable only when the emotions are kept subservient to the intellect."

Paul Huebner: "Vat voud Spencer do if he met ze most beautiful laydee?"

Craig: "That's just like you, Paul; your emotions control you intellectual faculties. Now, Spencer, in a case like that, would consider."

Huebner: "So do I, Mr. Graig, so do I! I consider, too; but I loose mine head aftervords!"

Craig: "You're an example of Huxley's dictum that a sound stomach and a fair intellect is better equipment for this world than a great head and dyspepsia."

Huebner: "Yes, I can eat and I can drink mine beer, and I can get up in der morning feeling elligant."

John Burton: "That's what I say makes the Ango-Saxon the leader to-day; he can eat—and what gave him that capacity? Outdoor sports, of course. Craig swears by Spencer and Huxley and Tyndall and the emotions under your thumb, but I say give us enthusiasm; that's the wonder worker—nothing great was ever accomplished without it."

Craig: "Speaking of eating, I have seen some wonders in the halls of Congress. You go down to Chamberlain's and see those brainy and brawny congressmen and senators eating; it's a sight. Now there was Senator Beck, for instance ——" But just then the door shut with a bang.

COOPER.

Boston.

IMPROVED QUALITY OF STOCK.—ABOUT VIOLETS. — CHRYSANTHEMUMS LATE.—FUNERAL OF AN ACTRESS.—LOCAL IMPROVEMENTS.—NOTES AND VISITORS.

A general improvement in the quality of flowers coming to this market is noted all along the line. Roses still show to a considerable degree the effects of the roasting they had to suffer in the hot last week of September, but they are getting better every day and with continued seasonable weather should soon approach the winter grades of quality. Carnations are rapidly improving and the departure of the competing asters leaves them an undisputed field. Violets are still far from the desired size and color but are as good as previous experience has led us to expect so early in the season. There are more of the single variety in evidence this year than heretofore. The doubles are well divided between Campbell and Marie Louise. Campbell enjoys a better relative sale in this market than elsewhere, not because the color is preferred by buyers but because—making a virtue of necessity—a number of growers have come to the conclusion that it is the only violet they can put in with a reasonable certainty of making a success with it. The Farquhar, as to the identity of which one hears varying opinions, is grown by quite a few and with better results than Marie Louise gives. Chrysanthemums make little impression as yet. They are unusually late this year with most of the growers in this neighborhood who attribute this fact to the late hot weather in part.

The funeral of the late Caroline Miskel Hoyt called for a great many flowers from this city and numerous handsome floral designs were made by the various local artists, the majority of which were, as usual, wreaths either simple or in some sort of an appropriate setting. A cover of smilax thickly strewn with cattleyas, violets and roses was spread over the casket.

At Horticultural Hall, on October 8, E. J. Mitton showed two well flowered specimens of Cattleya labiata and J. E. Rothwell had a handsome variety of Cattleya aurea, named Rothwelliana.

A large oblong water lily pond or tank is being constructed at J. L. Gardiner's. A rustic bridge will span it. Only the choicest varieties of aquatic flowers will be grown.

Extensive improvements are being made in the grounds at the Oakes Ames place. Mr. Ames is getting together a fine collection of botanical orchids, which is the only one of any extent is this part of the country.

Visitors in town: Alfred Dimmock, representing Sander & Co., London; H. S. Anderson, representing H. T. Jones, Elizabeth, N. J.; G. Sykes representing Lord & Burnham Co., New York.

Henry Penn has opened a new retail flower store in Chapman Place.

Toronto.

A QUIET SEASON.—CHRYSANTHEMUMS ARE NEARLY READY.—TESTIMONIAL TO A. H. EWING.—OTHER MATTERS OF INTEREST.

As is usual at this season of the year there has been a slack time in the cut flower trade, a dearth both of business and of flowers. Dahlias in small quantities have been found useful but the sales were limited. Charles Tidy showed the first chrysanthemums of the season October 11, principally Madame Bergmann, grown by Harry Dale, of Brampton. He asked $2.50 per dozen, but the demand was not great. The blooms in the various greenhouses are rapidly maturing and as the plants everywhere appear to be in excellent condition a few days of sunshine will bring in chrysanthemums in abundance.

I noticed a fine Washington navel orange tree in Tidy's conservatory, bearing many large oranges in various stages of ripening and a number of flowers and buds at the same time. There are some excellent early cyclamen on the market with a dozen or more flowers each.

Arthur H. Ewing, who has been for many years head gardener at the Normal School, and who has taken a prominent part in all movements in this section for the advancement of floriculture, being about to venture on his own account at Berlin, Ont., was made the recipient of a very handsome oak roll-top writing desk and an illuminated address, by his numerous friends in the Toronto Horticultural Society and the Toronto Gardeners' and Florists' Association. Among the speakers who testified to their appreciation of

Mr. Ewing's many kindnesses and good services were Capt. McMaster, Thomas Manton, J. McP. Ross, Henry Lucas, Ed. Tyrrel, Geo. Vair, H. Simmer, E. F. Collins, A. J. M. Watkins, George Mills and Edwin Utley. The address read as follows:

MR. A. H. EWING, DEAR SIR:—There are many ties in our ordinary life it grieves us to break, those of family affection or social intercourse. Circumstances have occurred which we regret to say will change our pleasant intercourse with you, being about to leave this part of the country in which you have been so long and favorably known and that more particularly among your confreres in the profession.

You are about to establish yourself in another part of the country, making a new home. We all hope you may be eminently successful. The universal urbanity of your manner has endeared you very much to all who have come in contact with you. Pray accept our heartfelt wishes for your future prosperity. Be also pleased to accept of this token of our esteem and best wishes, which when you look upon may remind you of the many friends you have left in Toronto.

GEO. VAIR, J. McP. ROSS,
THOS. MANTON, H. LUCAS,
HERMAN SIMMERS, THOS. McQUEEN,
Committee.

The regular monthly meeting of the Toronto Horticultural Society, which was rather sparsely attended, was devoted to "Bulbs for fall growing" and Herman Simmers gave a practical and useful address to amateurs upon that subject. S. P.

Detroit.

FLORISTS' CLUB DISCUSSES LIVE TOPICS.—PROMISE OF A PROFUSION OF METEORS.—HOLZNAGLE'S WM. SCOTT CARNATIONS.

The Florists' Club is progressing nicely and very interesting meetings are being held. At the last session a topic of importance was called up by J. F. Sullivan's report of the difficulty which he experienced in securing a shipment of palms from the east, the railroad having declined to move them without a certificate of inspection, claiming that palms come under the provisions of the New York legislation against San Jose scale. As several club members are anticipating importations of palms through New York the secretary was instructed to write the authorities and try to prevent trouble of similar character. At the next meeting of the club there will be an exhibit by the Detroit Microscopical Club of insect pests with which florists contend and the methods of combating them will be explained.

Everyone is anticipating a good season's business and preparing for it. From all indications Meteor roses are to be very abundant here this winter. Among the many who have good stock of this are Bruno Schroeter, J. E. Carey, of Mt. Clemens, and the Pontiac Floral Co.

Carnations are all doing well and among the many fine lots none are better than the house of Scotts grown by Frank Holznagle at Highland Park. R. F.

Buffalo.

STOCK AND THE MARKET.—MILLATT SELLS TO CHARLES PORTER.—SHOW PROSPECTS.—PERSONALITIES.

Carnations are coming in very fast and in various sizes. Roses are very good and quite plentiful. Asters have gone and dahlias look sad. Violets are becoming more plentiful and show a slight improvement in quality. Chrysanthemums will soon be in with a rush.

H. J. Millatt, whom we welcomed last fall, has sold out to Charles Porter, who has been chief clerk for S. A. Anderson for several years.

Everything points now to a more successful show than was ever given in Buffalo, and with the co-operation of all the florists, both growers and retailers, if for no other purpose than to advertise the business, we shall win a great success.

W. F. Kasting is now in his new office which he has handsomely decorated in red. Mons. Stokes, his able bookkeeper, can now talk to you from either side of a sliding window and in five different languages.

Will Palmer, in his alterations, has got an electric bell on Jakey Boeller. All he has to do is to push the button and Jakey will do the rest, and he don't have to come down stairs to do it. W.

St. Louis.

CUT FLOWER SITUATION.—CHRYSANTHEMUMS TAKE WELL.—VISITORS.—A BUSINESS CHANGE.

There has been very little change in the cut flower situation the past week as stock has been abundant enough to keep prices down to their regular figure. Chrysanthemums are coming in, principally Bergmann and Glory of Pacific and are taking quite well.

The irrepressible Joe Rolker and A. F. Ford, representing Aug. Rolker & Sons, and A. Herrmann, were in town during the past week.

The Krebs Floral Co., doing a retail trade at Sixth and Olive streets has decided to go out of business after a year's experience. R. F. T.

NORTHAMPTON, MASS.—Walter Harris started in the flower business here on October 3.

CLAYTON, ILL. — A chrysanthemum show will be given here during the third week in November.

ORANGE, N. J.—Robert MacArthur has disposed of his seed and flower store at 186 Main street to Popken & Collens.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By an A1 rose grower, up-to-date, competent to take charge of commercial place. E. LE FEVRE, 49 W. Randolph St., Chicago.

SITUATION WANTED—By a young man in a small retail place; age 20, single, steady; wages $20 per month and board. RELIABLE, care Am. Florist.

SITUATION WANTED—By grower of roses, carnations and general greenhouse stock First-class references Address M J, care Am Florist.

SITUATION WANTED—By single man, aged 36, sober and industrious, as assistant in greenhouse work. References. P O. Box 81, Oak Park, Ill.

SITUATION WANTED—By a single man, 15 years' experience as carnation grower. Referencese exchanged. W. H. DES FORGES,
Box 16, Edison Park, Chicago.

SITUATION WANTED— By young man, age 27; several years' experience in general greenhouse work; sober and reliable. References furnished Address
W B, care American Florist, Chicago.

SITUATION WANTED—By experienced florist; No. 1 rose grower, carnations, mums, violets, specialties. Good designer. Best references Address
W H, 202 N. Freedom Ave., Alliance, O.

SITUATION WANTED—By practical florist of 14 years' experience in roses, carnations, violets, forcing of bulbs and general pot plants; able to take charge; German, single. SOBER, care Am Florist.

SITUATION WANTED—As florist in private or commercial place. Good propagator, gardener and designer. Six years in last place; age 27. Good references. Address GEO. A. HODGSON,
46 Harvard St., Laconia, N H.

SITUATION WANTED—By a first-class carnation and violet grower, also general stock. Good propagator and designer. Good references. Address
E, care Eastern Office American Florist,
67 Bromfield St, Boston, Mass.

SITUATION WANTED—By good florist, 35 years old, single; 20 years' experience. Commercial or private place. Would like to take charge of a smaller establishment. References.
C K, care American Florist.

SITUATION WANTED—As foreman by a first-class up-to-date grower, good in all branches of the business; only first-class place wanted Wages $75 per month; open now or next spring. Address
FOREMAN, care American Florist.

WANTED—Young man as assistant florist. Give ref. and wages. GEO SOUSTER, Elgin, Ill.

WANTED—An offer to buy or lease six greenhouses; a fine chance for a practical florist
4, 11, 44. care American Florist.

WANTED—At once, single man to take care of palm and fern houses. Address
JOHN BLANCK, 160 43rd St., Chicago.

WANTED—Two young men to work in greenhouses on general stock and cut flowers. State wages wanted with board. Address
B B, care American Florist.

WANTED—A small hot water heater; must be in good order and cheap. Write, giving description and price. Address
T M F, Box 126 Beaver, Beaver Co, Pa.

WANTED—A first-class seedsman to take charge of flower, seed and plant department Must be well versed in his business, and qualified with catalogue work. Apply to THOS J. GREY,
32 South Market St., Boston, Mass., with reserences from last employers.

WANTED—A capable man to take charge of night firing in a large commercial establishment; must have thorough experience in running both hot water and steam boilers and must come well recommended as to ability, sobriety, honesty and steadiness. The position is a steady one. The work to be done is extensive and requires close attention, but systems are all conveniently arranged. Only first-class men of ability need apply. HENRY A. DREER,
Lock Box 16 S, Philadelphia.

FOR SALE—Four greenhouses, near y new Good retail stand. A CLAUS, Springfield, Ill.

FOR SALE—At a bargain, greenhouse property in Greater New York, opposite three cemeteries. Little cash needed Particulars M, care Am Florist.

FOR SALE CHEAP—Three greenhouses, four lots and stock in the best and liveliest city in America, unincumbered. Apply
558 South 1st St., Cripple Creek, Colo.

FOR SALE OR RENT—Good retail stand, 5000 feet of glass (new), has never paid less than $1300 per year net. Must buy stock. Reason for quitting, failing health Address ILL, care Am. Florist.

FOR SALE—Established florist's store on West Madison street, near Kedzie avenue; reason, cannot give personal attention. Rent, only $22 50 per month, including living rooms. C J, care Am. Florist.

FOR SALE—One No. 17 Hitchings greenhouse hot water boiler, second-hand, price $60. One No 24 Tobasco hot water boiler, used only four months, price $38. Address
GEORGE M. WITWER, South Bend, Ind.

FOR SALE—On account of age and poor health, three greenhouses, each 20x165, two filled with Beauty, Bride, Bridesmaid and Perle roses, planted in July, and in excellent condition; the other is filled with carnations and chrysanthemums, also fine; one frame 6x75 of pansies; one 6x140 of Marie Louise violets; 350 azaleas in 6 and 8-inch pots; one large lotus pond, filled; 10 others; one never failing well of water; good boiler, pump and tank; good houses; three acres good land; good stable and wagon shed. The best place around Harrisburg or in the county. For terms, address T. J. WINTERS, 943 North 7th St.,
Long Distance 'Phone 2454. Harrisburg, Pa.

FOR SALE.

A 20-year business, a 20-foot front 3-story brick house of 10 rooms and cellar, stable 30x50 feet with greenhouse same size on top of stable. Situated on Baltimore street, 7 squares from city hall, in the city of Baltimore. In the $10 000—$5,000 cash, balance long or short time Owner wishes to stop store keeping. Can show receipts for the whole time
GEO. V. SMITH, 1101 E. Baltimore St., Baltimore, Md.

FOR SALE.

Greenhouse business in Illinois, city of 15,000 population, 120 miles from Chicago; practically no competition. Reason for selling, poor health. Address.

W H G. care American Florist.

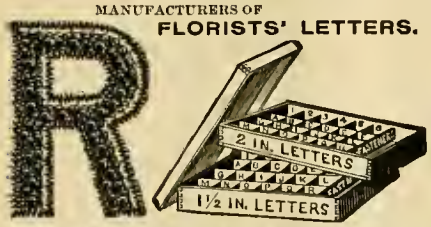
ANNOUNCEMENT!

JOSEPH FLEISCHMAN, the Hoffman House Florist, New York, wishes to announce that his new and beautiful branch store is for sale. It is the finest and most completely fitted store in the country. The business at his main store having increased to such proportions as to make it impossible for him to attend personally and satisfactorily to both places. All information can be had by addressing

FLEISCHMAN, Hoffman House Florist, NEW YORK.

Boston Florist Letter Co.

MANUFACTURERS OF
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.
Script Letters, $4. Fastener with each letter or word.
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

Mention the American Florist.

HARDY CUT FERNS

WRITE FOR PRICES.



L. B. BRAGUE,

Oldest, largest and most reliable dealer in the U. S.

Hinsdale, Mass.



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HARDY CUT FERNS

75 cents per 1000.
SPHAGNUM MOSS, the finest, 50 cents a barrel.
CHRISTMAS TREES by the carload. Low prices, easy terms.
BOUQUET GREEN, 5 cents per pound.
Locate your fall and winter trade. All order by mail or dispatch promptly attended to.

THOS. COLLINS, Box 241, Hinsdale, Mass.

ELLISON & TESSON,

Wholesale Shipping

FLORISTS

3134 Olive Street, St. LOUIS, MO.
HOME GROWN STOCK.

GEO. A. KUHL,

Wholesale Cut Flowers

ROSES AND CARNATIONS.

GEO. A. KUHL, - Pekin, Ill.

Orders should be placed NOW for Kelsey's Southern

Galax Leaves

BR'LLIANT GREEN and BRONZE.

Green are ready. Bronze about last of October. Information free, of leading wholesalers or the introducer. HARLAN P. KELSEY,
1150 Tremont Bldg, Boston, Mass.
Proprietor Highlands Nursery, in North Carolina.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

Pittsburg Cut Flower Co. Limited

705 Penn Avenue, PITTSBURG, PA.

CHRYSANTHEMUMS.
LILY OF THE VALLEY.
CARNATIONS.
ROSES.
} Extra Fancy Stock.

Wholesale Florists.

ESTABLISHED 1866 **EMIL STEFFENS** SUCC.TO N. STEFFENS. AND STEFFENS BROS.

MANUFACTURER OF
FLORISTS' WIRE DESIGNS & SUPPLIES
335 EAST 21ST ST. NEW YORK CITY.

Wholesale Flower Markets

CINCINNATI, Oct. 13.

Roses, Beauties, select	12.50@15.00
" " medium	8.00@10.00
" Brides, Bridesmaids	2.00@3.00
" Meteors	3.00@4.00
" Perles	2.00@3.00
Carnations	.75@1.00
Lily of the valley	4.00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00
Common ferns	.15
Chrysanthemums	12.50@15.00

ST. LOUIS, Oct. 13.

Roses, Beauties	3.00@15.00
" Meteors	2.00@4.00
" Brides, Bridesmaids	2.00@4.00
" Perles	1.00@3.00
" Kaiserins	2.00@5.00
Carnations	1.00@2.00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Tuberose spikes, single and double	3.00

MILWAUKEE, Oct. 13.

Roses, Beauties, long per doz.	1.50@2.00
" " medium " "	1.00@1.50
" " short " "	.50@.75
" Brides, Bridesmaids	3.00@4.00
" Perles, Meteors	3.00@4.00
" Kaserins	3.00@4.00
Carnations	.75@2.00
Gladioli	2.00@3.00
Smilax	12.50
Adiantum	.75
Common ferns	.20
Asparagus	50.00

BUFFALO, Oct. 13.

Roses, Beauties	5.00@20.00
" Brides, Bridesmaids	2.00@6.00
" Meteors	2.00@6.00
" Perles, Niphetos	1.00@3.00
" Kaiserins	2.00@6.00
Carnations, ordinary	.50@1.00
" fancies	1.00@2.00
Lily of the valley	4.00@5.00
Smilax	10.00@15.00
Adiantum	1.00@1.25
Asparagus	50.00@75.00
Hardy Ferns, per M, $1.50	
Tuberoses	2.50@3.00
Dahlias	.75@1.25

LOUISVILLE, Oct. 13.

Roses, Beauties, per dozen	.75@2.00
" Brides, Bridesmaids	2.00@3.00
" Meteors	2.00@3.00
" Kaiserins	2.00@4.00
" Perles	1.50@2.00
Carnations, fancy	1.25@1.50
" common	1.00
Violets	.50@.75
Smilax, per dozen	1.25@2.00
Adiantum	.75@1.00
Asparagus, per string	.50
Dagger ferns, per M, $1.00	
Fancy " "	1.50
Asters	1.00@1.25

Hardy Cut Ferns!

SPHAGNUM MOSS, 40c BBL.

Bouquet Green, Galax Leaves, Laurel Roping, &c. &c. Everything in green line always in stock at

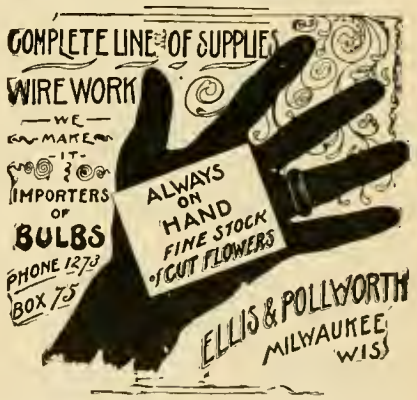
H. E. HARTFORD'S, 18 Chapman Place, BOSTON.
Mention American Florist.

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

WM. F. KASTING WHOLESALE COMMISSION FLORIST....
495 Washington St., Buffalo, N. Y.
Also Dealer in Florists' Supplies and Wire Designs



The Pittsburg Florists' Exchange

WHOLESALE
CUT FLOWERS AND Florists' Supplies
444 6th Ave., PITTSBURG, PA.
Consignments solicited. We command a good market.

Asparagus Plumosus Nanus.

Strings 10 feet long,
50 CENTS.
W. H. ELLIOTT, Brighton, Mass.

BRILLIANT GREEN AND BRONZE
GALAX LEAVES,
For Decorating and all Florists' Designs.
CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

ILLINOIS CUT FLOWER CO.

J. B. DEAMUD

51-53 WABASH AVE.

CHICAGO

FERNS All very fine.

	Per 100
Pteris serrulata, 2-inch	$3.00
Pteris serrulata cristata, 2-inch	3 00
Cyrtomium alcatum, 2-inch	4.00
Nephrolepis cordata compacta, 3-inch	10.00
Nephrolepis cordata compacta, 4-inch	25.00

PRICE LIST Per 100

Brides, Bridesmaids, Meteors	$2 to $4.00
Perles	2 to 3.00
Kaiserin	3 to 5.00
Carnations	75c to 1.00
Carnations, fancy	2.00
Valley	4 to 5.00
Tuberose Spikes	5.00
Asparagus, per string, 50c	
Smilax	10 to 12.50
Common Ferns, per 1000, 1.50	20c
Adiantum	50c

We can now supply CHRYSANTHEMUMS, from good to fancy grade, ranging from $1.00 to $3.00 per dozen.

V. M. & W.

Wholesale Florists

47 Wabash Avenue, CHICAGO.

E. C. AMLING

Wholesale Cut Flowers

51 Wabash Avenue,

W. S. HEFFRON, Mgr. CHICAGO.

Wholesale Flower Markets

CHICAGO, Oct. 14.

Roses, Beauties, extra long, per doz		3.00
" " 24 inch " "		2.00
" " 20 " " "		1.50
" " 15 " " "		1.00
" " 10 " " "		.75
" " 6 " " "		.50
" Brides	2.00@	4.00
" Kaiserins	2.00@	4.00
" Bridesmaids	1.50@	4.00
" Perles	1.50@	3.00
" Meteors	2.00@	4.00
Carnations	1.00@	2.50
Lily of the valley		4.00
Adiantum	.50@	1.00
Common ferns		20
Smilax	10.00@	12.00
Asparagus	40.00@	50.00
Violets	1.00@	1.25
Chrysanthemums	8.00@	15.00

Reinberg Bros.

Wholesale Growers of **CUT FLOWERS**

600,000 FEET OF GLASS!

We can fill all orders on short notice with all leading varieties of Roses and Carnations.
We ARE Headquarters for Fine AMERICAN BEAUTIES. Give us a trial and convince yourself.

51 Wabash Avenue, CHICAGO.

A. G. PRINCE & CO.

Wholesale Cut Flowers

AND FLORISTS' SUPPLIES.

Agents for the Hinsdale Rose Co. Special attention paid to shipping orders.

88 & 90 Wabash Avenue,

Telephone Main 3208. CHICAGO.

C. W. WORS

2740 Olive Street, ST. LOUIS, MO.

FLOWERS at WHOLESALE....

.....ROSES, and a full line.

Headquarters for the South West.....

Geo. M. Moss,

WHOLESALE FLORIST,

30 South 17th Street, PHILADELPHIA, PA.

Long Distance 'Phone 1-41 26 D.

Consignments of Roses, Carnations, Violets solicited

F. J. FOSTER

WHOLESALE FLORIST

109 N. 11th St., ST. LOUIS, MO.

SPECIAL ATTENTION PAID TO SHIPPING ORDERS. CONSIGNMENTS SOLICITED.

We've thousands of readers and hundreds of advertisers. Each helps the other.

Lynch WHOLESALE FLORIST.

19-21 E. RANDOLPH ST. CHICAGO

WHOLESALE GROWER OF ROSES. DEALER IN CUT FLOWERS.

J. A. BUDLONG,

37-39 Randolph Street, CHICAGO. ILL.

S. B. WINTER,

(Successor to WINTER & GLOVER,)

21 Randolph St., Chicago.

HIGH GRADE **CUT FLOWERS,**

PACKED RIGHT,

so they will reach you in just as good condition as they reach us.

WIRE DESIGNS: A Full Line. Write us for our illustrated Catalogue.

...LOUISVILLE...

Florists' Supply and Exchange

Wholesale Florists and dealers in Florists' Supplies

Special facilities for shipping south. Unequalled returns for good stock. Open night and day.

520 W. Jefferson St., - LOUISVILLE, KY.

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Wholesale Growers of **CUT FLOWERS**

51 WABASH AVENUE,

Headquarters For American Beauties. CHICAGO

KENNICOTT BROS. CO.

WHOLESALE CUT FLOWERS AND FLORISTS SUPPLIES.

WIRE WORK A SPECIALTY. 88 WABASH AVE. CHICAGO.

Mention the American Florist.

Bassett & Washburn

88 Wabash Ave., CHICAGO.

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GREENHOUSES: HINSDALE, ILL.

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Don't Forget that we are at 4 Washington St., Chicago.

Write for special quotations on large orders.

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AND DEALERS IN

FLORISTS' SUPPLIES,

4 Ordway Place, BOSTON, MASS.

Cut Flower Consignments Solicited. Best market.

N. Y. CUT FLOWER EXCHANGE

404-412 E. 34th St. Near Ferry.

Open for Cut Flower Sales at 6 o'clock Every Morning.....

DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.

JOHN DONALDSON, Secretary.

C. A. KUEHN,

Wholesale Florist,

1122 PINE STREET,

ST. LOUIS, MO.

☞ A complete line of Wire Designs.

ST. LOUIS CUT FLOWER CO.

Wholesale Florists

E. H. MICHEL

1620 Olive St.. ST. LOUIS, MO.

CINCINNATI CUT FLOWER CO.

SUCCESSORS TO

H. L. SUNDERBRUCH CO.

Wholesale Commission Florists

4th and Walnut Sts., CINCINNATI, OHIO.

Consignments Solicited. Special Attention Given to Shipping Orders.

MacDonald & McManus

... SUPPLY ... ORCHIDS EVERY DAY

ONLY HOUSE IN NEW YORK HANDLING
EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

TELEPHONE 2778 38TH STREET. 50 West 30th Street, NEW YORK CITY.

DECKER, BLAUVELT & Co.

Wholesale Florists,

42 West 28th Street, NEW YORK.

Consignments solicited. Shipping Orders will receive prompt and careful attention.

M. A. HART,

Commission DEALER IN Cut Flowers,
44 WEST 29TH STREET,
NEW YORK CITY.
THE BEST MARKET IN NEW YORK.
'Phone 1307 38th St.

JOHN YOUNG,

ROSES, CARNATIONS, VALLEY
and all other choice cut flower stock.
51 W. 28th Street, NEW YORK.
Price list on application.

THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,
112 and 114 West 24th Street,
Telephone 733—18th. NEW YORK.
CONSIGNMENTS SOLICITED.
Special Attention Given to Shipping Orders.
Mention American Florist.

Wholesale Flower Markets

NEW YORK, Oct. 12.

Roses, Beauties	5.00@20 00
" Bridesmaids, Brides	1.00@ 3 00
" Morgans Perles	1.00@2 00
" Niphetos, Cusins	.50@ 1 00
Carnations	.50@ 1 00
Lily of the valley	2 00@ 3.00
Smilax	8 00@15 00
Asparagus	35.00@50 00
Cattleyas	20 00@30 00
Adiantum	.50@ .75
Violets	.50@ 1 00
Chrysanthemums	12.00@20.00

BOSTON, Oct. 12.

Roses, Beauties	5.00@25.00
" Kaiserins	2.00@ 8 00
" Brides, Bridesmaids, Meteors	1 00@ 6.00
Carnations	.75@ 1 50
Lily of the valley	2.00@ 4.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00
Asters	.25@ .50
Violets	.50

PHILADELPHIA, Oct. 12.

Roses, Teas	2.00@ 4.00
" " extra	4 00@ 6 00
" Beauties, extra	12 50@16 00
" " firsts	6.00@ 8.00
" " seconds	4 00@ 6.00
Carnations	1 00@ 1 50
Lily of the valley	3 00@ 4 00
Asparagus strings	35 00@50.00
" Sprengerii per bunch .50@1.00	
Smilax	12.00@15.00
Violets, double	.50@ .75
Cosmos	.25@ 50
Chrysanteemums	12.00@16.00

I SELL.... ROSES!

Brides, Maids and Beauties.

TOP GRADE FLOWERS.
EVERYTHING IN MARKET.

John I. Raynor

49 WEST 28th STREET
NEW YORK CITY.

THOS. YOUNG, JR.

Wholesale Florist

43 West 28th Street, New York.

WALTER F. SHERIDAN,

WHOLESALE
FLORIST.
39 West 28th Street, NEW YORK.
Roses shipped to all points. Price list on application.

ROSES LILIES

JULIUS LANG

53 WEST 30th STREET
NEW YORK
CARNATIONS SMILAX

EDWARD C. HORAN,

34 W. 29TH STREET,
NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country.
Price List on application.

Choice Carnations Choice Roses

Traendly & Schenck

NEW YORK CITY
38 W. 28th Street Cut Flower Exchange

WM. C. SMITH,

Wholesale Florist,
1604 LUDLOW STREET,
PHILADELPHIA.
Consignments Solicited. Special attention given to shipping orders

SAMUEL S. PENNOCK

WHOLESALE FLORIST.
1612-14-16 LUDLOW ST.
PHILADELPHIA, PA.
FINE VALLEY ALWAYS ON HAND.

CITY HALL CUT FLOWER MARKET

WELCH BROS., Proprietors.
The New England Headquarters for the best grade of flowers at all seasons of the year....
9 Chapman Place, 15 Province Street,
BOSTON, - MASS.

JAMES M. KING

Commission Dealer in
CUT FLOWERS.
Good Money for your Flowers.
Good Flowers for your Money.
49 WEST 29TH ST., NEW YORK.
TELEPHONE 1675 38th St.

Now They're Cheap!!

FLOWERS, ALL KINDS.
PLENTY OF THEM AT
J. K. ALLEN'S 57 WEST 28th STREET, NEW YORK.
TELEPHONE 382 38th St.

GEORGE A. SUTHERLAND,

Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield St.. BOSTON, MASS.

J. J. PERKINS. ESTABLISHED 1872. R. POTTER.

J. J. PERKINS & CO.,

Wholesale and Commi sion
FLORISTS...
29 West 29th St., NEW YORK.

Wholesale Florists
ALWAYS ON HAND:
CARNATIONS,
BRIDESMAIDS,
BRIDES.
JOBBERS IN
FLORIST'S SUPPLIES.
N. F. McCarthy & Co.
FLORISTS' VASES.
Horticultural Auctioneers.
84 HAWLEY STREET, BOSTON.

Ford Bros...

Wholesale Florists
111 West 30th Street, NEW YORK.
Consignments Solicited. Telephone, 260 38th St.

FRANK MILLANG,

CUT FLOWERS,
WHOLESALE COMMISSION,
408 E. 34th Street,
Cut Flower Exchange. NEW YORK.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

ONION sets are advancing briskly.

C. C. MORSE, of Santa Clara, California, is on his eastern trip.

THE COX Plant and Seed Company has opened an eastern office at 11 Broadway, New York City.

ROBT. POMMER, of D. I. Bushnell & Co., St. Louis, was a visitor at Chicago this week, interested in the onion set market.

W. ATLEE BURPEE & Co., are moving from their temporary quarters on Fairmount avenue to the new Burpee Building, 475–477 N. Fifth street, Philadelphia.

NEW YORK CITY.—Friends in the trade were very glad to see Jerome B. Rice, of Cambridge, N. Y., in the city last week. Other visitors: W. C. Langbridge, Cambridge, N. Y.; Geo. C. Watson, Philadelphia.

THE Secretary of Agriculture advises the AMERICAN FLORIST through its representative that the matter of seed contract is still under consideration and not finally settled. It may be several days before definite information can be had.

ST. PAUL.—L. L. May & Co., who have a large force of travellers now on the road in all sections of the country, report excellent trade, especially in packets. The onion set crop in this section has been an average one of excellent quality. The dry season has been very favorable for the harvesting and curing of this crop.

Flower Seed Novelties.

We hear of the following as likely to be introduced the coming season:

Chrysanthemum carinatum Chameleon.—A very large flowering kind, light bronze when the flower opens, with a dark purple ring. The petals are a dark purplish black, with a bright yellow ring which changes into a light yellow when the flower fades.

Coleus, Dwarf, Large Leaved.—A distinct dwarf kind having large leaves and growing from six to eight inches high. Leaves dark purple, marbled red.

Eschscholtzia Douglasi.—The flowers of this are of medium size and bright yellow color. The plant blooms two weeks earlier than all other kinds.

Delphinium Caucasicum.—A perennial with sky blue flowers, the plant growing to about the same height as D. elatum.

Gaillardia grandiflora compacta.—A dwarf, compact, erect form of the large flowering species.

Geranium grandiflorum.—A hardy perennial which blooms through May and June. The flowers, produced in pairs, are large and of a bright ultramarine blue shade; very showy.

Gerardia hybrida.—This is said to be a cross between a Gerardia and a pentstemon. It is very free flowering, the blooms varying in color from pale rose to red and purple. If sown in January or February and treated like a pentstemon, it flowers from July till late in autumn.

Pelargonium hybridum nanum grandiflorum.—A new race of very vigorous growth. Seeds sown in August will produce fine flowering plants the following May.

The list also includes a dwarf candytuft and a petunia of much merit.

Forcing Strawberries in the Open Ground.

The main requisite is a bed of well-rooted plants which are not too old. The plants should be cleaned of all decayed leaves in the fall, and then the bed should be covered with short manure, or leaves and straw to prevent the frost from penetrating too deep. Frames should then be placed over the beds. In February, as soon as the weather permits, the forcing can be commenced by removing the straw or litter, giving the plants another careful cleaning, loosening the surface of the soil and placing the sash on the frame. Fresh horse manure, which should be renewed several times during the season, is then placed around the frame. During the night the sash are covered with mats and boards, which should remain until the sun is warm enough the next morning to create sufficient heat in the frame. The air space in the frame should not be less than one foot in depth. The plants are sprayed until they commence to bloom, and the plants should be fully exposed to the sun without ventilation. An occasional application of liquid manure on dull days is necessary. The spraying should be done with lukewarm water, and only on bright days. The surface of the soil must be kept moist regularly. When the plants are in bloom care should be taken that no water is applied to the flowers, and from that time onward it is necessary that the frame be ventilated on bright days, but always in such a manner that the plants are protected from draughts. When the plants cease blooming and commence to set fruit the ventilation should be reduced so as to provide sufficient heat to mature the fruit. In this manner ripe strawberries have been obtained from four to six weeks before those in the open ground were ready, and at a comparatively small expense. Sharpless, Royal Sovereign, Laxton's Noble, La Grosse, Sucree and Wallut have proven good sorts for forcing in this way, Laxton's Noble having the preference.—*Mollers' Deutsche Gartner Zeitung.*

SPRINGFIELD, MASS.—Aitken & Son are making a number of improvements in their store.

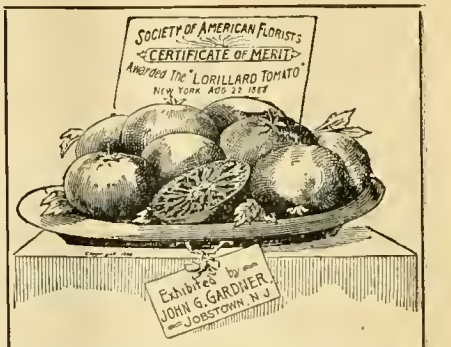
HAVERHILL, MISS.—Fred. A. Luce was married on October 5 to Miss T. F. Leighton, at Grace church parsonage.

WESTBURY, N. Y.—Thos. Evans, who has been gardener at the Rosary Nursery for some time, has taken a position with the Oasis Nurscry Co.



ENGLISH
Mushroom Spawn
New Importation just received.
10 lbs. $1.00; 100 lbs. $7.50 f. o. b. Chicago; $7.00 per 100 f. o. b. New York.
Vaughan's Seed Store
CHICAGO.
NEW YORK.

TELEGRAPH CODE
OF THE
AM. SEED TRADE ASSOCIATION
$2.00,
in either stiff or flexible cover.
ADDRESS ORDERS TO
AMERICAN FLORIST CO.,
CHICAGO.



A Profitable Side Crop.
The tomato is one of the profitable side crops for the florist if properly handled. An important item in proper handling is to start right by getting proper seed. Experience has proven the "Lorillard" the best forcing variety so far; but much of the seed now on the market is not carefully selected as to type. I have taken pains to find something free from this objection, and have pleasure in offering
Lorillard Forcing Tomato...
Specially saved for my trade by the originator Mr. Jno. Gardner.. Pkts., 25c, 50c and $1.00, free by mail. Bulk price on application.
Sutton's Best of All Forcing Tomato
Has done remarkably well with those who tried it the past season. I do not know how it is for outside, but it's a dandy for forcing; large, round, deep scarlet, very prolific. Pkt. 40c, mailed free. (No bulk of this to offer at present). Give this new sort a trial. Stamps accepted for small amounts.
GEORGE C. WATSON,
Seedsman.....
Juniper & Walnut Streets,
PHILADELPHIA.

COLD STORAGE **VALLEY** ALWAYS ON HAND.
CASES of 2500 pips, extra quality, $25.00; per 1000, $12.00.
CASES of 3000 pips, good quality, $25.00; per 1000, $10.00.
CLUCAS & BODDINGTON CO.,
501 & 503 West 13th St., NEW YORK CITY.



TRY **DREER'S GARDEN SEEDS,**
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

August Rölker & Sons
Supply the Trade
with Choicest Seeds, Bulbs and all Florists' Supplies; many choice Novelties offered for the fall trade. . . .
FOR LISTS ADDRESS
52 Dey Street, NEW YORK.

BURPEE'S SEEDS PHILADELPHIA.
Wholesale Price List for Florists and Market Gardeners.

LILY OF THE VALLEY CROWNS.
25 ACRES IN CULTIVATION. 3 years old, well-rooted Berlin crowns, all guaranteed to force early.
CABBAGE SEED, WHITE, AMAGER, large, extra fine; CAULIFLOWER SEEDS, EXTRA EARLY ERFURT, DWARF (HAAGE'S) and SNOWBALL.
Selected Danish Seeds. Prices on Application.
CHR. OLSEN, Odense, Denmark.

H. BAYERSDORFER & CO.

Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

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M. Rice & Co.

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RICHMOND, IND.

John Conley & Son,

Manufacturers of

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New York.

Fire!! Fire!!

FLORISTS' MUTUAL FIRE INSURANCE CO.

☞Write now. Delays are Dangerous.

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THE Regan Printing House

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CHICAGO.

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"Horticultural Advertiser"

This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Address

EDITORS OF THE "H. A."

Chilwell Nurseries. - Notts, England.

HAIL For Insurance Against Damage by Hail

Address

JOHN G. ESLER, - Sec'y F. H. A.,

SADDLE RIVER, N. J.

Several thousand florists supply the majority of their wants after a perusal of these pages.

CHRYSANTHEMUMS AT.... MODERATE PRICES.

We have a very choice lot, all grown to single stems, and for the coming week will have, in yellows Mrs. O. P. Bassett and Mrs. Whilldin. In whites, Mrs. H. Robinson and extra fine Ivory. Prices, $1.00 to $1.50 per dozen.

Bassett & Washburn, STORE: 88 Wabash Ave., CHICAGO

GREENHOUSES: HINSDALE, ILL.

ATTENTION, SECRETARIES! OF CHRYSANTHEMUM CLUBS AND EXHIBITIONS.

The season of Chrysanthemum Exhibitions being close at hand, we have, as in seasons past, placed ourselves in position to supply your Club with our beautiful CHRYSANTHEMUM LITHOGRAPHS. We have just issued, at a very great expense, two new lithographs (a full sheet and a half sheet), which we believe are the handsomest yet offered. They are entirely new in design, and, being highly illuminated are admirably fitted for advertising your coming exhibition.

We respectfully solicit your patronage, and will be pleased to send samples and prices on application. ☞ORDERS WILL BE PROMPTLY FILLED.

THE COURIER LITHOGRAPHING COMPANY, Buffalo, N. Y.

Bouquet ...Green and.... **Holly.** CONTRACTS MADE NOW.

Vaughan's Seed Store

CHICAGO: 84 & 86 Randolph St.

NEW YORK: 14 Barclay St.

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HOLTON & HUNKEL CO. Wholesale Commission Florists.

DEALERS IN FLORISTS' SUPPLIES, PLANTS, BULBS, ETC.

Manufacturers of WIRE DESIGNS. P. O. BOX 103. MILWAUKEE, WIS.

HYDRANGEAS OTAKSA, RED BRANCHED and THOS. HOGG

Strong, field-grown plants.

With 3 to 5 crowns $1.00 per 10; $8.00 per 100

" 1 to 3 " 75 " 5.00 "

ASPARAGUS SPRENGERI, $6.00 per 100

Fine, thrifty stuff from deep 2½-inch pots, 6 to 10 inches tall and with 5 to 10 stalks.

FIELD-GROWN HARDY ROSES

Clematis, Ornamental Shrubs and Trees, Pæonies, Herbaceous Plants, Small Fruits, Fruit Trees.

Special quotations gladly submitted by letter.

Jackson & Perkins Co. Newark, New York.

HUSSA & CO.

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A Weekly Illustrated Journal.

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MÖLLER'S **Deutsche Gärtner-Zeitung**

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription $3.00 per annum, including postage. Sample copies free.

Ludwig Möller-Erfurt. (GERMANY)

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
A. L. BROOKE, Pres.; E. ALBERTSON Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

J. J. TIBBETTS is now general agent for the Creston Nursery Company at Ottumwa, Iowa.

THE Jewell Nursery Company, of Lake City, Minn., has been making a large display of apples at the county fair at Grundy Center, Ia.

LOUISIANA, Mo.—Stark Brothers have removed their office from the Lewis building to the excellent structure adjoining their nurseries, which they have just completed.

J. W. DEAL, of Missouri Valley, Iowa, has purchased of G. E. Tamisiea, representing the Des Moines Nursery, the largest stock of fruit trees ever sold in Harrison county.

O. O. WIRICK, of Mendota, Ill., who was for some years in the nursery trade, died recently at Alma, Mich., where he was being treated for consumption. He was 36 years of age.

THE growth of horticulture in America is well demonstrated by the fact that in 1866 there were but ten acres planted with grapes in Chautauqua county, New York, where 15,000 acres are now devoted to this fruit.

Select Hardy Roses.

ED. AM. FLORIST:—You will oblige by giving a list of about a dozen hardy roses as free in flowering as Mrs. John Laing, with their colors. State also whether such varieties bloom better budded than on their own roots. J. F.
Iowa.

Replying to the above, would say that I do not know of any rose as free flowering as Mrs. John Laing or one which lasts so well the entire season. The following with Mrs. John Laing form a good collection: Anne de Diesbach, carmine; Alfred Colomb, crimson; Earl of Dufferin, crimson; Gen. Jacqueminot, crimson; Jean Liabaud, crimson maroon; John Hopper, bright rose and carmine; Mabel Morrison, blush white; Magna Charta, pink and carmine; Margaret Dickson, rose white, shaded with yellow; Marshall P. Wilder, cherry carmine; Paul Neyron, deep rose; Ulrich Brunner, brilliant red. I find the budded roses do the best; the colors are clearer, although many sorts do very well on their own roots. EDWIN A. KANST.

Euphorbia Corollata.

The large and branching panicles of this excellent perennial are very useful as a cut flower and should be everywhere grown extensively for that purpose. The accompanying illustration representing a few sprays of the flowers, is from a photograph taken late in September, the plants being now in bloom a second time this season. This second growth is not as tall, nor are the panicles as large and spreading as the first, but they are equally serviceable for all purposes and can be used in a variety of ways.

For vases they are unsurpassed and in connection with almost any other flower they are vastly superior to the gypsophila as the individual flowers are considerably larger, plainly discernible from a distance, still retaining their light and airy character, and are of a much purer white. We have kept them in an ordinary living room for over a week and I do not know for how much longer they would keep fresh in a cooler place. Great quantities of bloom may be gathered from a few well grown clumps as they flower and branch out very freely and hold their own for a long time, but we cannot rely on a second flowering so abundant as that of this season for the weather conditions are not always so favorable for the free development of after-growth. Still, even if we could get but one main crop, in July and August, we would not like to be without it.

The plants improve with age and should be left undisturbed for many years if possible. Young plants are neither as tall nor as branchy as the older ones and look weak and spindly compared with the



EUPHORBIA COROLLATA.

dense, thick mass of growth of well established clumps. They divide very readily or may be multiplied by root cuttings in early spring as every small piece of root will in time make a good plant, but from small stock grown in this manner we can not reasonably expect a very large amount of bloom for a year or two.
J. B. KELLER.

Phlox Decussata.

Following are descriptions of a few more varieties of Phlox decussata, and we hope before long to give a list of those among our new and old sorts which have been most admired this season:

Bacchante.—Dense spike; flowers large, deep carmine rose, veined purple, purple eye.

Esperence.—Pyramidal spike; flowers of fine form, rose-lilac with large, lighter center.

Montagnard.—Rounded spikes; large flowers, dark red with purple eye.

Suffrage.—Dwarf; spike: much branched; flowers finely formed, dark, clear rose; very continuous and bright.

Hofgaertner Starke.—Pyramidal spike; large flowers, dark purple-red.

Huxley.—Dense spike; flowers large, white with broad margin of rosy-lilac; very distinct.

Laniboire.—Flowers large, bright rose with violet and purple center.

Le Cygne—Pyramidal spike; flowers large, pure white; very good.

Wm. Muhl.—Flowers large, shining rose and white with crimson red eye.

Argon.—Dwarf; spikes much branched; flowers large, delicate rose, shaded salmon

Gnignol.—Dwarf; spikes branched; flowers delicate lilac-mauve with large white center, veined lilac.

Jungfrau.—Dwarf; branched spikes; flowers large, well formed, white veined and shaded clear pink.

Torpilleur.—Dwarf; branched spike; flowers large, dark bright rose.

Massachusetts. R. N.

Indianapolis.

BUSINESS GOOD.—EXHIBITS AT THE STATE FAIR.—JOHN HARTJE READS AN ESSAY.—PLANS FOR THE CHRYSANTHEMUM SHOW.—INDIANAPOLIS FLORISTS VISIT ANDERSON.—PERSONAL MENTION.

September brought pretty fair business to our flower stores. Roses and carnations were scarce and brought good prices. The floral exhibit at our state fair was very creditable in quality, but there was not enough of it to fill over half of Floral Hall, which consequently presented a somewhat bare appearance. Premiums were awarded to the Berterman Floral Co., A. Wiegand & Son, John Rieman & Co, and W. W. Coles.

On October 6 twenty-one Indianapolis florists, the largest party which ever participated in a similar excursion, accepted the invitation of J. S. Stuart to visit Anderson, Ind., as the guests of Stuart & Haugh, whose well ordered establishment furnished much pleasure to the visitors. From the greenhouses the guests were escorted through several of Anderson's busy factories and were then served with an elaborate dinner at the home of Mr. Stuart. The afternoon was spent in bowling.

At the September meeting of the Florists' Club John Hartje read one of his papers, short and interesting as usual. His subject was: Beds and vases; how they are and how they should be planted.

The State Florists' Association held a special meeting here September 15 to complete arrangements for the chrysanthemum show. Committees were appointed, and on motion of Mr. Langstaff the admission fee was fixed at 15 cents for the forenoon and 25 cents for afternoon and evening. Much to the pleasure of his numerous friends, the meeting brought J. D. Carmody to this city.

By the death of E. A. Parker the Florists' Club lost one of its oldest and most popular members. Mr. Parker, who was a well known lawyer, took a great interest in flowers and had one of the best equipped private greenhouses in the city.

W. A. Lilly is now a partner in the Meridian Street Conservatory Company. The firm of Lilly Brothers dissolved partnership.

W. G. Berterman, who has been sick for some time is now feeling better. He left last week for a recreation trip through Arizona and California and will be gone until next spring. H. JUNGE.

Nashville, Tenn.

During the past week there was a very marked improvement in the floral trade and the general call for flowers was better than for some time past.

Roses are showing some improvement, though not up to strictly high grade. In quantity they are abundant. The florists' windows are full to overflowing with American Beauty, Meteor, La France, Bridesmaid and Perle. Violets are blooming, but are very small. Chrysanthemums are promising and will come in earlier than usual. M. C. DORRIS.

HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
JACOB W. MANNING,
The Reading Nursery, READING, MASS.
ESTABLISHED 1854.
Mention American Florist.

HARDY SHRUBS
Assorted in 25 Varieties.
My selection $50 per 1000. Descriptive catalogue and price lists for the trade.
SAMUEL C. MOON,
MORRISVILLE, - Bucks Co., PA.

Jerusalem Cherries
Fine, bushy plants, full of flowers and fruit, from field, will fill 6-inch pots; retail readily for 50c to 75c each. Price, $15 00 per 100.
CLIFF'S GREENHOUSES,
Main and Johnson Sts., Germantown, Phila.

STOCK PLANTS of Earliest of all 'MUMS
that make a good flower.
Cut Sept. 20th. Last year Sept. 17th.
LADY FITZWYGRAM, $1.00 per doz.
Cash with order, please.
FRED. BURKI, Bellevue, Pa.

ASPARAGUS
PLUMOSUS NANUS, 2½-inch pots.....$7.00 per 100
ROSES, Bride and Bridesmaid, 3½-in. pots, $5 per 100
Cyperus Alternifolius, 2½-in. pots.....$2.50 per 100
Grevillea Robusta, 2¼-in. pots.....$2.50 per 100
NATHAN SMITH & SON,
ADRIAN, MICH.

CACTI Many choice kinds, $1 to $2 per Dozen.
PHYLOCACTI, EPIPHYLLUMS, ECHINOPSIS, ECHEVERIAS, CEREUS FLAGELLIFORMIS, $3.00 to $6.00 per 100; 60c to $1 00 per doz.
Rooted Cuttings and offsets at low rates.
MRS. M. E. PATTERSON, Glendale, Cal.

ASPARAGUS ROOTS $.50 per 100, 4.00 per 1000
GOLDEN BEDDER and VERSCHAFFELTII COLEUS, 2½-in. pots.
VINCAS, 2½-in. pots. AMPELOPSIS Veitchii.
SMILAX, 2½-inch pots.
GERANIUMS, rooted cutting, U. S. Grant, S. A. Nutt, Murkland and La Favorite. Prices on application. Sample by mail on receipt of 10c.
R. I HART, Mgr., Box 244, Hackettstow n, N. J

SPHAGNUM MOSS.
A very select quality, 75c. per bale; 10 bales, $6.00. Grown and packed by.....
M. I. Lyons, Babcock, Wis.
Write for prices on car lots.

McCOWAN CARNATIONS, field-grown, strong, healthy, $3 per 100; $28 per 1000.
CINERARIA and BOSTON IVY, 2½-in., $2.50 a 100.
GERANIUM CLUMPS, $5 per 100.
INSALL & LEADBETTER, Moorestown, N. J.

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IN THE UNITED STATES. WRITE TO US FOR SPECIAL PRICES.
W. & T. SMITH CO., Geneva, N. Y.
When writing mention the American Florist.

The New WHITE Blackberry
"ICEBERG"
I have 100,000 of them.
Write for price.....
F. L. ATKINS, Orange, N. J.

True stock of Burbank's
New WHITE Blackberry
ICEBERG
Cuts loaned free to seedsmen who will catalogue it.
Sample lithograph and descriptive circular free.
CAUTION.—All persons are warned against purchasing any blackberry plants said to be of the white variety "Iceberg" originated by me, except the stock offered by Jackson & Perkins Co of Newark, New York, whom I have appointed my sole agents for the propagation and introduction of said blackberry, and in whose hands I placed my entire stock. LUTHER BURBANK, Santa Rosa, Cal.
JACKSON & PERKINS CO., Newark, New York.

F. & F. NURSERIES SPRINGFIELD, NEW JERSEY.
Wholesale Growers, TREES & PLANTS in Full Assortment. TRADE CATALOGUE FREE.

Trees and Shrubs.
We have an immense collection of **Trees, Shrubs, Vines** and **Herbaceous Plants.** Trees of small sizes for setting in nursery rows, or **large stock** for immediate effect. Trees of large sizes, 2 1-2 to 4-inch diameter, in large assortment.
Send for trade catalogue. Prices on large caliper trees given only by letter.
Thomas Meehan & Sons,
Germantown, Philadelphia, Pa.

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One Million
Flowering Shrubs; full assortment; all sizes.
Half Million...
Deciduous Trees for street, lawn and avenue planting.
200,000 Vines, Iris, Clematis, Actinedia and other sorts. Correspondence solicited.
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IS A GUARANTEE OF SATISFACTORY QUALITY.....
Manz makes Illustrations for this paper.

Viburnum Tomentosum
A RARE AND BEAUTIFUL SHRUB.
HERBACEOUS PERENNIALS A SPECIALTY
Price list and descriptive catalogue on application.
REA BROTHERS, Norwood, Mass.

J. H. H. BOYD
TREE and SHRUB, SEEDS and SEEDLINGS,
GAGE, Sequatchie County, TENN.
Send for price list.

Now Ready
THE American Florist Company's DIRECTORY of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Fully revised to date with upwards of 8,000 New Names. Price $2.00; in flexible leather binding, $3.00.
American Florist Company,
324 Dearborn St., Chicago, Ill., U. S. A.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

W. HOBOKEN, N. J.—Ernst Asmus is getting ready to go for a brief shooting trip. No moose this year, only small game.

PORTLAND, ME.—The veteran fisherman, J. A. Dirwanger, took his last trout for the season on October 7, his seventy-first birthday.

FLATBUSH.—The silver cigar holder has been won by Tom Brennan with a score of 209, but Mr. Brennan has put up the trophy for another month's competition and offers to buy it back from the winner for $10.

NEW YORK.—The Florists' Club committee has secured the Immen alleys at Fourth avenue and Thirty-second street and bowling will begin Monday evening, October 17. A challenge is expected from Woodside.

Chicago Bowlers Organize.

After the Florists' Club meeting, October 7, a dozen members met to organize a bowling club. Phil. Hauswirth presided and J. S. Wilson acted as secretary. The membership is limited to twenty-four by the by-laws adopted. Only Florists' Club members are eligible. Membership fee is $1 and monthly dues 25 cents. Officers will be elected and rules adopted October 21.

With Quaker City Shooters.

The University of Pennsylvania gun club will open its grounds at Fernwood on Saturday, October 15, with the Florists' Club team.

At the recent shoot with the Westchester Club the Florists' Club team won by thirty-four points with nine men teams, twenty-five birds each. W. K. Harris made twenty-three out of twenty-five, but says that he supposes that those who did not see him do it will scarcely believe it. K.

St. Louis Bowlers.

The champions have voted to play a match game with a star team of those outside the trade. The score last Monday night was:

Name.	1st	2d	3d	4th	Av.
C. A. Kuhn	132	158	174	174	159
D. Finlayson		134	200	110	148
J. Kunz	134	121	137	174	141
C. Sanders	127	136	182	112	139
R. F. Tesson		154	121	128	134
F. J. Fillmore	91	165	155	104	128
J. J. Beneke	104	128	116	120	117
E. Schray	82	126	104	131	110

Buffalo Bowlers.

Our committee has not yet reported a plan to extend the usefulness of the interest in bowling, but it is time they awaken, for Philadelphia is no longer somnolent and Buffalo sports certainly should not sleep over a matter which Philadelphia does not. It is useless to expatiate upon the merits of our bowlers, but wait till next August. We will have more bowlers at Detroit than the other fellows can take care of. At the last meeting on our alleys the champion of Omaha was taken down by his boy Phil. Following is the score for three games rolled on strange alleys on October 7:

Name.	1st	2d	3d	Av.
Wm. Scott	190	213	240	214
S. A. Anderson	196	191	201	196
Geo. McClure	190	175	214	193
M. Bloy	180	163	192	178
J. H. Rebstock	115	233	..	174
Phil. Scott	105	155	211	157
Wm. Legg	164	109	175	149
W. F. Kasting	54	103	213	123
W. J. Palmer, Jr.	85	83	201	123
W. A. Adams	111	111	111	111
D. B. Long	175	84	63	107
W. B. Scott	80	90	100	90
H. J. Millatt	84	83	82	83

W.

The "Actives" Win the First.

The bowling match between the active and associate members of the Philadelphia Florists' Club on last Wednesday evening was a most enjoyable affair. Mr. Melle, of the associate team, is a rooter of the first degree, and "Eat 'em up" Charlie will have to look to his laurels. Rennear believes that if he can talk a man out of a spare it is as good as if he makes one himself. The game was full of exciting moments, and even in the last frame it looked as if the associates would pull out ahead, but the actives took a brace and won by twenty-five pins. Dr. Goebel in the last game made 207, his first 200 score. The return game will be played on Wednesday, October 26. The score follows:

Associates.		Actives.	
Archer	425	Brown	431
Rennear	356	Connor	432
Moore	453	Westcott	411
Melle	314	Watson	389
Palms	426	Longinette	433
Goebel	508	Kift	451
	2482		2507

K.

Philadelphia Sporting News.

One by one the old timers are dropping into the club room of an evening, now that the nights are cool and a turn at the wooden sphere an enjoyable pastime. It looks like "Auld lang syne" once more, and the season just opening promises to be as lively as any of its predecessors, not even excepting these halcyon days of the early nineties when "Mose" Rice and George Campbell and others laid out the bills of fare. We seldom see George Campbell any more, although he was an interested onlooker at last Tuesday evening's game. We hope to see him around again as usual. "Mose," too! They're a great pair for

"Quips and cranks and wanton wiles,
Nods and becks and wreathed in smiles."

and other laughter producing antics when in the proper vein.

We even had John Burton with us last week. He used to be one of our war horses on the alleys but has fallen into a sadly rusty condition of late, too deeply engrossed in shooting and cricket to keep his bowling up to par. "J. B." takes the right view of the pastime end of our life. He says, "Go it boys, go it hearty, you'll work all the better for it when it comes to working, eat better, sleep better, live longer, and be better men every way and a credit to the Anglo-Celtic race."

John K. Starr has returned from the war; he didn't go far—only about half way; but far enough to catch typhoid lying out in the mud down south. He's putting up a rattling game for a convalescent. His 192 held the record of the alleys nearly all last week. Captain Archer is kicking himself that he didn't know about Starr in time to get him on his aggregation of "associates."

Another new face seen on the alleys this week was Bart Cartledge, who has just returned from a trip down east among the Canucks and Blue Noses. Bart says it is the finest trip he ever had and he feels a thousandfold better for it. His score on the alleys did not quite bear this out but he is to be excused as it can't be expected that a man can shoot all day and bowl a good game at night at the same time. But the mere fact that he comes bowling at all is a hopeful sign of surplus energy. And, by the same token, there are dozens of others among the absentees who are missing lots of fun. Let them come down of an evening and enjoy themselves. There's always plenty of company. It's seldom you can drop in without seeing Baker or Rust or Kienle or Kahlert, or some other of the stand-by's, and above all the din the hearty "ha! ha!!" of your old friend John Walker. Don't be backward. All welcome. G. C. W.

GREAT SALE
OF
Florists Orchids
FROM
SANDER & CO., St. Albans, England,
FRIDAY, OCT. 21st, 1898.
Send for illustrated catalogue containing full description of many showy and useful varieties offered. This will be the only sale from this famous establishment this season. The plants are lotted to suit both large and small buyers, and will be sold by
CLEARY & CO., 60 Vesey St., New York.

STRONG, FIELD-GROWN
Variegated Vincas.

Large plants suitable for 5-inch and 6-inch pots, $6.00 per 100.

Hydrangea Otaksa.

Nice stock, just right for 5-inch, 6-inch and 7-inch pots, at $5.00, $8.00 and $10.00 per 100.

Dracaena Indivisa.

Suitable for 4-inch pots, $6.00 per 100.

VICK & HILL CO., Rochester, N. Y.

GREATEST BARGAIN IN PLANTS

Because all stock offered is in A-1 condition.

ROSES—Maids and Brides, 4-inch, $7.50 per 100. Meteor, Maids, Brides, Perles, Niphetos, 3-inch, $5.00 per 100.

CARNATIONS—Field-grown, ready now. Daybreak, Scott, McGowan, Jubilee, Rose Queen, Helen Keller, $5.50 per 100, or $50.00 per 1000.

VIOLETS—Marie Louise, field-grown, ready now, $5.00 per 100, or $40.00 per 1000.

RUBBER PLANTS—Ficus Elastica, 5-inch at $5.00 per doz.

BEGONIA REX—4-inch pots, $20.00 per 100.

WM. F. KASTING
BUFFALO, N. Y.

PALM Seed. FRESH ON HAND

	100	1000	3000
Kentia Belmoreana	$1.00	$6.50	$15.00
" Forsteriana	1.00	6.50	15.00

J. L. SCHILLER, 404 East 34th St., NEW YORK CITY.
Mention Am. Florist when writing.

ROBT. CRAIG & SON
Roses, Palms
and Novelties in Decorative Plants.
Market and 49th Street, PHILADELPHIA PA.

Orchids!

We are now offering Cattleya Trianae and C. labiata in sheath; also Oncidium variecasum Rogersii in spike.

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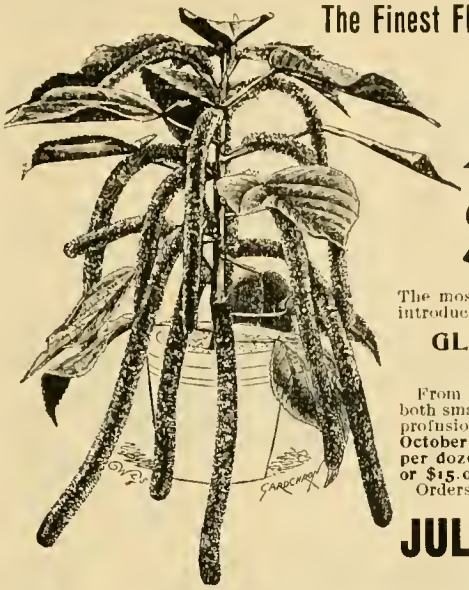
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HEADQUARTERS
For Ericas (Heather); also full line of other Flowering Plants.
PALMS and DECORATIVE PLANTS IN QUANTITY.
Come, see and convince yourself.

HYDRANGEA OTAKSA

XX strong plants, per doz., $3.50; per 100, $27.50
" " for 5 and 6-in. pots.....per doz., $3.00; per 100, $20.00
Medium size, " 2.00; " 12.00
ERICA FRAGRANS, 5 & 6-in. pots, per doz., 4.50
Extra fine plants.
DUTCH BULBS & INDIAN AZALEAS now at hand.
L. C. BOBBINK, Rutherford, N. J.



The Finest Flowering Novelty of the Century.....

THE EVERBLOOMING

Acalypha Sanderi..

The most extraordinary decorative flowering plant ever introduced. Spikes of blossom

GLOWING CRIMSON SCARLET,

20 to 25 inches long.

From January to December it can be had in bloom, both small as well as large plants produce spikes in great profusion. Fine, well-rooted plants, ready for delivery **October 20th, in 2½-inch pots, $1 00 each, or $9.00 per dozen Strong plants, in 4-inch pots, $2.00 each, or $15.00 per dozen.**
Orders filled strictly in rotation.

JULIUS ROEHRS, Florist,
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When writing please mention American Florist.

Palms...

ARECA LUTESCENS, COCOS WEDDELIANA, KENTIA BELMOREANA, LATANIA BORBONICA.

For Sizes and Prices, see American Florist of October 1st, page 269.

JOSEPH HEACOCK,
Box 36, WYNCOTE, PA.

When writing mention American Florist.

PALM SEEDS.

The following MUST be ordered NOW direct:

COCOS WEDDELIANA	$3.00 per 1000
" GLAZIOVII	4.00 "
GEONOMA GRACILIS	3.00 "
" IMPERIALIS	4.00 "
ARECA LUTESCENS	3.50 "

Not less than per 5000 delivered at above price; careful packing and freight paid to New York. Cash with order.

ORCHIDS: Large exportation of **all best Brazilian** Orchids. Apply for quotations. Frequent steamers to New York.

KROMER & THIEME,
Cable address: Kromer, Rio. Caixa 904 - - - - **RIO DE JANEIRO, BRAZIL.**
Mention the American Florist.

FERNS! FERNS!

100,000 Commercial Ferns in the best varieties out of 2-in. pots, grown in cool houses and well-aired. No better stock offered at double the price; $2.50 per 100, $20.00 per 1000, $50.00 for 3000.

E. HIPPARD, - Youngstown, Ohio.

Azaleas
Palms
Bay Trees
Araucarias

THE FINEST STOCK IN THE WORLD

SANDER,
BRUGES, BELGIUM.
AGENT:
A. DIMMOCK,
60 Vesey St., NEW YORK.

CROTONS In Excellent Variety.

Send for list of sizes, varieties and prices.

If you feel disposed to try a sample dozen in as many varieties, in 6-in. pots, you may with confidence forward the necessary $9.00 for same by either check or P. O. money order and satisfaction will be guaranteed.

EDWIN LONSDALE,
Money order office, Sta. H. Philadelphia. Chestnut Hill, **PHILADELPHIA.**

PALMS and FERNS

The Largest Stock of PLANTS IN THE WEST



GEO Wittbold 1708 N. HALSTED ST CHICAGO

1500 Rex Begonias

In varieties, strong plants in 2½-inch pots, at $2.50 per hundred.

Mme. Bruant Geraniums

Stock plants from open ground, at $1.00 per dozen. CASH WITH ORDER.

LOUIS STELZIG, Florist, Springfield, O.

The Only

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to reach the Florists, Nurserymen and Seedsmen of the United States and Canada, than to circularize the 13,500 names in the American Florist Company's Trade Directory is to advertise in the *American Florist.*

The book, 361 pages, postpaid, is $2.00. Correspondence in regard to the second method is invited.

AMERICAN FLORIST CO.

324 Dearborn Street, *CHICAGO, ILL.*

The Coming Season

WE SHALL BE WITH THE AMERICAN BEAUTY LEADERS,
AND OUR HEADQUARTERS ARE AT NO. 4 WASHINGTON STREET.

Other Specialties you all know now.

But Hold!

WE STARTLE EVERYBODY

When we offer unprecedented low rates in the line of *Florists' Supplies,* of which we have put in an extensive line, enabling us to give you close rates on small quantities or car load lots.

CAN SAVE YOU MONEY.
NO TRAVELING SALESMEN.

All transactions being negotiated through correspondence.

Quotations on all hurry-up inquiries wired to you free of charge.

A. L. RANDALL,

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PROFITABLE!



GIANT PAPER WHITE NARCISSUS.

Having a limited surplus of Bulbs as mentioned below we will unload same at prices LOW ENOUGH to make them profitable to every florist, be he a grower for the retail trade or commission man. Quotations by wire or letter on advice of quantity you can place.

WHITE ROMAN HYACINTHS, 11 to 12 centimeters.
" " " 12 to 15 "
" " " 13 to 15 "
" " " 14 and up "
LIGHT ROSE ROMAN HYACINTHS.
NARCISSUS PAPER WHITE, Giant Flowered.
" **DOUBLE VON SION, 1st size.**
FREESIA REFRACTA ALBA.
CALLA ÆTHIOPICA, 1st size.

Chinese Sacred Lily. The best selling bulb for the retail counter trade. Per 100.....$4.50. Special prices for quantities

VAUGHAN'S SEED STORE,

14 Barclay Street, NEW YORK.
84-86 Randolph Street, CHICAGO.

HEADQUARTERS FOR "FANCY" BULB STOCK.

Cincinnati.

TRADE AND FLOWERS ARE IMPROVING.—FLORISTS' CLUB PLANS SHOWS.—NOTES.

Trade during the past week has been fair. The market is abundantly supplied with roses, and chrysanthemums are coming in more freely. Violets are very poor as yet, but carnations are improving rapidly.

On October 8 the regular monthly meeting of the Florists' Club was held with Pres. Witterstaetter in the chair. The secretary read the special report of the revised show schedule, which was accepted, and a vote of thanks was tendered to the board of directors for efficient work. James B. Allen was proposed for membership. The new schedules with special prizes for each month will make our shows quite interesting. The schedule will be ready for mailing to all members and contributors by November 1. Anyone wishing a copy will please apply to H. Schwarz, secretary, Price Hill, Cincinnati.

Peter Barr, of London, was a visitor here last week and we were much pleased at his compliments upon our flower growing. H. SCHWARZ.

EXTRA HEAVY **Clean Stock!**

Kentia Belmoreana

6-in., 5 to 7 leaves.....$15 to $24 per dozen.
5-in., 5 to 6 leaves..... 12 "

Kentia Fosteriana

6-in., 5 to 6 leaves.....$12 to $18 per dozen.
5-in., 4 to 5 leaves..... 9 to 12 "

FIELD GROWN **CARNATIONS...**

A fine lot ready for delivery.

THE COTTAGE GARDENS
QUEENS, N. Y.

BLACK CALLAS

DIRECT FROM HOLY LAND. CHOICE BULBS FOR IMMEDIATE DELIVERY.

FIRST SIZE.....per 100 $3.00
SECOND SIZE..... " 2.00

SPECIAL PRICES FOR QUANTITIES. SAMPLES FREE.

VAUGHAN'S SEED STORE,
Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

			Per 100
ADIANTUM CUNEATUM,	2-in.	pots	$3 00
PTERIS PALMATA,	2	"	4 00
			Each
PANDANUS VEITCHII,	4	"	50c to 65c
" "	5	"	$1 to $1.25
" "	7 & 8	"	$2.50 to $4

PEPEROMIA, 3-in. pots.....75c per doz.
PRIMULA, fine strain, 3-in. pots...$3 per 100
FITTONIAS, 3-in. pots...75c. to $1 per doz.

H. F. HALLE, 548 W. Madison St., CHICAGO.

SPECIAL OFFER!

Pandanus Utilis, 2½-in. pots, beautiful, clean stock, $8.00 per 100. Only a limited number, fine for growing on....

SIEBRECHT & SON
NEW ROCHELLE, N. Y.

AZALEAS

Large Stock of Best Forcing Varieties.

Order early and save heavy express charges. Can be safely freighted during October.

10 to 12 inch Crowns $35 per 100. 12 to 14 inch Crowns $48 per 100. 14 to 15 inch Crowns $55 per 100.



CYCAS REVOLUTA, fine stock, medium sized plants, with 6 to 8 leaves $1 each, 8 to 12 leaves $1.75 each, 12 to 15 leaves $3 each.
ARAUCARIA, Excelsa, 10 to 12 inches high $1 each, 15 inches high $1.25 each, 15 to 18 inches $1.50 each.
ASPARAGUS, Plumosus Nana, 2½ inch pots $5 per 100, 3 inch pots $6 per 100.
ASPARAGUS, Sprengerii, 2½ inch pots $5 per 100, 3 inch pots $6 per 100, 4 inch pots $15 per 100.
NEPHROLEPSIS, Exaltata Bostoninsis, 2½ inch pots $6 per 100.
ROSES, Field Grown, H. P. Etc. Large stock of strong healthy plants of best varieties for forcing, such as Baronesse Rothschild, Madam Gabriel Luizet, Magna Charta, Ulrich Brunner, Anna Diesbach, Gen. Jacquiminot, Mrs. J. H. Ling, Etc., $10 per 100. Write for prices on larger lots. Clio and Machioness of Londonderry $12 per 100. Crimson Rambler extra strong $12 per 100.

Full stock of Palms, Ficus and other Greenhouse Plants.

Headquarters for ORNAMENTAL TREES and SHRUBS. Correspondence and personal inspection solicited.

THE STORRS & HARRISON CO., Box 45 Painesville, O.

SPECIAL OFFERS FOR 1898.

Our $50.00 per 1,000 Offer on Deciduous Shrubs.

An assortment of TWENTY VARIETIES (fifty each), purchasers' selection from Shrubs quoted in trade list at $4.00 to $7.00 per 100, will be furnished for **$50.00,** F. O. B. when cash accompanies order, otherwise packing charged at cost.

Our $75.00 per 1,000 Offer on Deciduous Shrubs.

An assortment of TWENTY VARIETIES (fifty each), purchasers' selection from Shrubs quoted in trade list at $7.00 to $10.00 per 100, will be furnished for **$75.00,** F. O. B. when cash accompanies order, otherwise packing charged at cost.

100,000 California Privet, 1 year, 2 years and 3 years.
5,000 Deutzia Gracilis, 12 to 15 inches, very fine for florists to force, $6.00 per 100; $50.00 per 1000.
10,000 Hydrangea Paniculata, different sizes.

Very Low Prices on Vines.

AMPELOPSIS VEITCHII,	1 year	$35.00 per 1000.
" "	2 years	50.00 per 1000.
ACTINIDIA ARGUTA, or Polygama,	1 year	8.00 per 100.
" "	2 years	16.00 per 100.
CLEMATIS PANICULATA,	from 3-inch pots	35.00 per 1000.
" "	from 4 inch pots	60.00 per 1000.
" "	open ground, 2 years, very strong	75.00 per 1000.
ENGLISH IVY,	1 year, open ground, strong	50.00 per 1000.
" "	2 years, very long vines	60.00 per 1000.
WICHURAIANA ROSES,	1 year	48.00 per 1000.
" "	very strong, 2 years	75.00 per 1000.

DECIDUOUS TREES.

An immense stock of Norway Sugar, Silver and Sycamore Maples, Purple-leaved Beech, u - aved Birch, Catalpas, Elms, Lindens, Horsechestnuts, Magnolias, Oaks and Willows.

OF INTEREST TO FLORISTS **EVERGREEN TREES** FOR WINTER DECORATIONS

We are specially prepared to supply florists with Evergreens suitable for winter decorations, either for window boxes, tubs or pots. We recommend the dwarf varieties of Arhorvitæs and Retinosporas where a small or medium growth only is desired, and tall-growing Arborvitæs where larger sizes are preferable; either size plants are of perfect form and well furnished to the base. We solicit your orders for these.

PRICE LISTS ON APPLICATION.

THE WM. H. MOON CO.
MORRISVILLE, PA.

Successful Growers

Know that they can dispose of all their Surplus Stock by advertising in the American Florist. TRY IT NOW.

Large, Healthy, Field-Grown

Carnations.

of the following varieties:

SCOTT, ROSE QUEEN, MINNIE COOK, BRIDESMAID and ELDORADO.

$5.00 per 100; $40.00 per 1000.

Fine assortment of extra strong **FERNS**, $4.00 per 100.

Fine large **SMILAX PLANTS**, from 3½-in. pots, $3.00 per 100; $25.00 per 1000.

PRIMULA OBCONICA, from 3½-inch pots, at $3.00 per 100.

Large field-grown **DRACAENAS**, 3 years old, $10.00 per 100.

SWAINSONIA PLANTS, from 3½-inch pots, at $6.00 per 100.

JAMES HORAN & SON,
BRIDGEPORT, CONN.

Surplus, Field-Grown

CARNATIONS

Clean, healthy, strong plants with plenty of roots.

White Cloud, white.	C. A. Dana, pink.
John Young, white.	Dazzle, scarlet.
Mary Wood, white.	Jubilee, scarlet.
Storm King, white.	Gold Nugget, yellow.
New York, pink.	Psyche, variegated.
Painted Lady, pink.	Lily Dean, variegated.
Mrs. C. H. Duhme, pink	Meteor, crimson.

Send for Price List.

FRED. DORNER & SONS CO.
FA FAYETTE, IND.

FIELD-GROWN CARNATIONS.

Ready now. Standard varieties. Write for prices.

FIELD-GROWN MARIE LOUISE VIOLETS, $4 per 100. A1 stock, from pots, $3 per 100; $25 per 1000.

A few hundred **BRIDES and MAIDS** at a hargain, from 3-inch pots.

CRABB & HUNTER, Grand Rapids, Mich.

FIELD GROWN **CARNATIONS**

Lizzie McGowan, Wm. Scott and Portia, $6 per 100; $50 per 1000.

JOHN REIMELS,
WOODHAVEN, L. I.

Field-Grown **CARNATIONS**

And Violet Plants

GOOD STOCK. LOW PRICES.

A. WASHBURN & SON, BLOOMINGTON, ILL.

Carnations! FIELD-GROWN.

All sold except 500 Wm. Scott, 300 Emily Pierson, 500 Lizzie McGowan, 100 Morello and 100 Goldfinch.

If there is anything here you want, write me and get some low prices on this lot. Address

Chas. Chadwick, Lock Box H, Grand Rapids, Mich.

CARNATIONS H. WEBER & SONS,
Oakland, - Md.

4 Acres Field-Grown Carnation Plants, 91,000.

Our Carnations are first-class in every respect, free from disease and packed lightly by our improved system of packing, by which we can send them to all parts of the United States and Canada in perfect condition.

JUBILEE	BUTTERCUP	CRIMSON SPORT	HELEN KELLER
		$6.00 per 100.	
BRIDESMAID	METEOR	MME. DIAZ ALBERTINI	CHESTER PRIDE
IVORY	ARMAZINDY	PURITAN	STORM KING
SWEETBRIER	L. L. LAMBORN	SILVER SPRAY	WM. SCOTT
MRS. FISHER		$4.00 per 100.	

J. L. DILLON, Bloomsburg, Pa.

CARNATIONS

Fine Field-Grown Plants.

	100	1000
WM. SCOTT	$3.00	$25.00
PORTIA	3.00	25.00
KOHINOOR	3.00	25.00
GOLDFINCH	3.00	25.00

No order for less than 100 accepted.

REINBERG BROS.
51 Wabash Ave., CHICAGO.

Field-Grown

CARNATIONS

The following letter just received:

GEO. HANCOCK & SON, Grand Haven, Mich.,

Gentlemen:—Your plants received in good shape. They are the best plants I have ever bought, and am greatly pleased with them.

Respectfully,
H. D. ROHRER, Lancaster, Pa.

We have left a fine stock of

Jubilee, Tidal Wave, Mrs. Duhme, Ivory, Morello, Goldfinch, Harrison's White, Pingree and Firefly.

☞ Send for prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

Mention the American Florist.

5000 ARMAZINDY

Carnation Plants

MEDIUM SIZE

$2.00 per 100, cash with order.

ALBERT M. HERR,
.....LANCASTER, PA.

NEW COMMERCIAL WHITE

Carnation ...GENESEE.

A few hundred good, Field-Grown, on sale at **$12.00 per 100**.....

DAN'L B. LONG, Sales Agent,
Buffalo, N. Y.

It is good business policy to mention the

....American Florist

when you write to an advertiser.

CHEAP AS DIRT!

GERANIUMS, field-grown, best vars.	$4 00	per 100
FLOWERING BEGONIAS, 3-in. pots	2.00	"
REX BEGONIAS, 4-in. pots	5 00	"
MARIE LOUISE VIOLETS, field-grown	3 00	"
CARNATIONS, McGowan, Scott, T. Wave, Garfield, Daybreak	2.00	"
FLORA HILL Carnation	6 00	"
CHRYSANTHEMUMS, 6 stand. vars., 6-in. pots	6 00	"
H. P. ROSES, 2 years field-grown	5 00	"
CANNAS, 4 good vars. large clumps	.15	each.
FUCHSIAS, 6 vars., 3½-in pots	.35	a doz.
GENISTA CAN. 5-in pots	.60	"
MME. SALLEROI Geraniums, 4-in. pots	.25	"
HELIOTROPES, 3 vars 5 in. pots	.50	"
PELARGONIUM VICTOR, 4-in. pots	.75	"
HOYA CARNOSA, large vines, 4-in. pots	.40	"
VINCA VARIEGATA, 2 vars., extra strong, field grown	.50	"
PRIMROSES, 3-in pots	.50	"

Stock A No. 1. Cash please.

GREENE CO. FLORAL NURSERY, WHITE HALL, ILL.

FINE FIELD-GROWN **CARNATIONS.**

325 Goldfinch	$5.00 per 100
850 Portia	4.00 per 100
260 Wm. Scott	4 00 per 100
1450 McCowan	4 00 per 100
400 Hur Majesty, pink	4 00 per 100
200 Uncle John	4 00 per 100
200 Garfield	4 00 per 100

ROSES—La France, $3.00. Meteor, $2.50.

THE NATIONAL PLANT CO., Dayton, O.

Daybreak

CARNATIONS.

I still have about 600 extra fine field-grown plants of this popular variety, at **$4.00 per 100.** Also 200 METEORS at $3.00 per 100. Others all sold.

W. A. WETTLIN, Hornellsville, N. Y.

3500 CARNATION PLANTS.

Field-grown, fine, large plants full of buds, for planting in the house:

McGOWAN, PORTIA, WAVE, SCOTT, KELLER, ROSE QUEEN, HINZE'S WHITE, MRS. FISHER, GRACE WILDER.....

Address for one week,

E. R. McKINNEY, NORMAL, ILL.

SURPLUS CARNATIONS.

A splendid second size, and sure money makers at the price.

500 SILVER SPRAY
500 EMILY PIERSON
300 WM. SCOTT
200 ROSE QUEEN
50 METEOR
} 2c. each.

Make us an offer for the lot.

STOVER FLORAL COMPANY, Grandville, Mich.

Stock Wanted

400 Carnations, A1 Plants.
1000 small Ferns, 2½-inch or flats.
Small Palms assorted.
600 red or pink, single Bouvardia.

Offer in exchange Crotons, Latanias, Jerusalem Cherries, etc., etc. **CLIFF'S GREENHOUSES,**
Main and Johnson S.s., Germantown, Phila.

SPECIALTIES IN BEST VARIETIES

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

There are buyers for all kinds of stock advertised in the American Florist.

Some Advice on Exhibition Management.

Much has been written about the management of exhibitions and there is really little that is practical which can be added to what has been written or said before. The experiences of each succeeding year, however, as recorded from various localities, show us more and more conclusively that the most difficult point in exhibition management is to "make it pay." There being a fair assurance of financial success in advance, the rest of the work should come easily to men whose lives are spent in studying floral decorative effect.

Florists are notoriously poor "showmen." The vocation is one for which they are not fitted, but there are in all populous communities men who have talents and experience especially adapted to this kind of work—men who have shown that they can promote and carry through to a successful outcome a theatrical venture, a fair or a concert—men who are forceful advertisers, good organizers and well equipped with tact and a thorough knowledge of human nature. The first step toward possible financial success for a flower show is a deal with such a party or with some established institution commanding the services of such men with an agreed mutual participation in the risks and the prospective profits.

It is indispensable in making arrangements for an artistic, well displayed exhibition that the superintendent or chairman of the arrangement committee should know in advance what exhibits to expect. Many contributors fail for one reason or another to make entries beforehand. This neglect is an injustice to everyone concerned and especially to the superintendent, and to its prevalence is due much of the "unfinishedness" of most of our competitive flower shows—a defect seldom seen in exhibitions made by a single firm or individual.

Nothing contributes more to the tidiness and general attractive appearance of a flower show than a proper selection of vases and dishes in uniform sizes for the different classes. A display of gladioli stuck in wide-mouthed, green glass bottles and pickle jars, each spike pointing in a different direction, is not calculated to increase the beholder's appreciation or admiration for gladioli, and a row of short-stemmed dahlias, each squatting in the top of a tall blue hyacinth glass, is enough to turn one's stomach. These are not fanciful or exaggerated examples, but have been seen on more than one occasion by the writer, and yet the public were blamed because they did not support the "show."

Overcrowding is a very common defect in our flower shows. Give each individual plant or flower plenty of room that it may have an atmosphere of its own about it and be free from the discordant effect of inharmonious forms and colors in contiguous exhibits.

All tables and platforms should be neatly covered with paper or cloth of an unobtrusive color—white, as a rule, being the best. Old soap boxes do not make desirable stands on which to elevate specimen plants, but if nothing better is at your disposal, then cover them carefully with something appropriate.

Insist that your exhibitors shall keep all cut flower displays or design work in a fresh or presentable condition; otherwise, clean them out on the morning of the second day or as soon as they begin to wilt. "Their room is better than their company." EXHIBITOR.

ROMAN HYACINTH BULBS

AT SACRIFICING PRICES.

A consignment of 50 Cases has just reached us in splendid condition which must be sold at once, and until sold, we will offer them as follows, guaranteed sound and in perfect condition, terms net cash:

WHITE ROMAN HYACINTHS.

11 to 12 centimeter bulbs.....Case of 2500, $25.00, or $10.50 per 1000
12 to 13 " " " 2000, 31.00, or 16.50 per 1000
13 to 15 " " " 1500, 30.00, or 21.00 per 1000

Also a few Cases of **NARCISSUS PAPER WHITE GRAND.**

13 centi. or over in circumference.....Case of 1500 bulbs for $12.00, or $8.50 per 1000. Choice LILIUM HARRISII. 7-9 bulbs, $12 per case of 400.

At same time get some of our other prices on MONSTER FREESIAS, TULIPS, etc., named and mixed, VON SION NARCISSUS, DUTCH HYACINTHS, named, Bedding or Miniatures, in fact any kind of Bulbs, SCARCE or PLENTIFUL. WE HAVE THEM.

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501 and 503 West 13th Street, - NEW YORK CITY.

Telephone Call 403 18th St.

Importers, Exporters and Growers' Agents of SEEDS, BULBS AND PLANTS.

Acalypha Sanderi,

THE GREAT DECORATIVE PLANT NOVELTY.

Each, $1.00; Dozen, $9.00.

VAUGHAN'S SEED STORE,
14 Barclay Street, NEW YORK.

VAUGHAN'S GREENHOUSES,
WESTERN SPRINGS, ILL.

☞ WRITE TO NEAREST ADDRESS.

LOWEST PRICES ON BULBS, BUT CASH!

Send in your wants for quotation, no price list issued.

J. L. SCHILLER, 404 East 34th St., NEW YORK.

Cyclamen Plants!

NOW READY FOR DELIVERY.

600, 3-inch pots.....at $ 8.00 per 100.
2000, 4 " at 12.00 "
1000, 5 " at 25.00 "
500, 6 " at 50.00 "

The above plants are grown from the very choicest mixture of seed and are guaranteed first-class in every respect.

Shipped direct from the greenhouses.

Vaughan, McKellar AND Winterson

47 Wabash Ave., CHICAGO.

Asparagus Sprengeri

50 000 Plants in 2½-inch pots, $5.00 per 100. Express: 24 for $1.50 by mail. Specimens for 8-in. pots, $6.00 per 12.

A. BLANC & CO., Philadelphia

LIL. LONGIFLORUM (Japan).

ORDER QUICK: 6x8, per 100.....$3.00
7x9, per 100..... 5.00

French Roman Hyacinths, 13x15 per 100. $2.50 per 100 $21. Dutch Hyacinths, finest to color, per 100 $4.25. Named sorts, our choice, dozen, $1 100 $6. Cyclamen Giganteum seed, per 100, 75c; per 1000 $5.

Order of ZALUCAS ow Addr ss

H. H. BERGER & CO., 47 Barclay Street, New York.

(ESTABLISHED 1878.)

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BULBS

Of All Kinds.

Hulsebosch Bros.,

ENGLEWOOD, N. J.

OUR WELL KNOWN SPECIALTIES.

1500 Rubber Trees, perfect in growth and foliage, 5½-inch $5. 6 inch $7, 8-inch $11 per dozen. 100 at 7 dozen rates

Latania Borbonica seedlings, low and strong, $3 per 100; $25 per 1000.

25 000 extra well grown Ferns for dishes, $3 per 100; $25 per 1000

Sword Ferns Nephrolepis Exaltata, strong, 4½-inch, $10. 5-in., $20 per 100

65,000 Palms, Dracænas, Pandanus, etc. Send for price list. Medal awarded World's Fair, 1893, on Palms.

☞ We sell for cash only, but allow inspection at express office before accepting.

ALBERT FUCHS.

26 model greenhouses at 2059-73 N. Halsted St., CHICAGO, ILL.

10,000 1 sgl Vums ready at low cash prices. A few steady customers wanted for roses and carnations.

CYCLAMEN PERSICUM GIGANTEUM...

From 4-in. pots..... $10.00 per 100; $75.00 per 1000
" 5 " 15 00 " 125 00 "
" 6 " ... 25.00 " 225 00 "

CLEMATIS PANICULATA.

Small, about 12-inch..... $4 00
Medium, 3 to 4 feet..... 8 00
Strong, 4 to 5 feet 10.00

Terms cash. Palms, Ferns and Azaleas taken in exchange. *PAUL D. F. STIER, Bayonne, N. J.*

GOLDEN GATE Rose Plants.

SELECTED STOCK.

3 and 4-inch pots, $25.00 per hundred.
For Cash or in Exchange.

American Rose Co., Washington, D. C.

ROSES. ROSES.

No finer grown. Big bushy plants, full of flowering shoots, out of 3 and 3½-inch pots, at $3.00 per 100. Meteors, Brides, Bridesmaids, Perles and Beauties. This stock is cheap at twice the price, but must be sold at once to make room.

SMILAX PLANTS, 2-inch pots, full of roots and covered with plant—no finer to be had—at the lowest price ever quoted 75c per 100; $5 00 per 1000.
CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

CANNAS—Rambler Roses

From field for Fall delivery.

Also **30,000 SPIRÆA ANTHONY WATERER.**
40,000 LOCAN BERRY TIPS.

The Conard & Jones Co., WEST GROVE, PA.

Geranium "MARS"

STOCK PLANTS, FIELD GROWN, READY NOW....

$1.50, $2.25, $3.00 per doz.; $15.00 per 100. Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

Chinese Primroses

6000, 2½-inch pots, strong, mixed colors, $2.00 per 100.

PANSY PLANTS. 25,000, $2.50 per 1000. CASH WITH ORDER.

JOS. H. CUNNINGHAM, Delaware, O.

TO THE CATALOGUE TRADE.

10,000 Clumps CANNAS, leading varieties.
5,000 SPIRÆA Anthony Waterer, 1 and 2 year.
5,000 Logan Berry, Strawberry, Raspberry and Golden Mayberry.
5,000 AMPELOPSIS VEITCHII. Write for special prices.
5,000 **VIOLETS,** Lady Hume Campbell, clumps $5 per 100; in pots $3 per 100; California, clumps $3 per 100; Luxonne, clumps $4 per 100.

BENJ. CONNELL, Florist. **West Grove, Pa.**
Please Mention the American Florist.

X CYCLAMEN X GIGANTEUM.

New crop seed in best mixture. The finest strain of Giant flowering varieties grown. Be sure to sow. Per trade pkt., 200 seeds, $1.00; half pkt. 50c.

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Surplus Stock

Can be disposed of by advertising. Try it.....

This Size "Ad." Costs Only $1.00.

AMERICAN FLORIST CO., CHICAGO.

FINE ROSE STOCK. 3-in. strong, healthy. Maids, Brides, $3.50 per 100; Perles, $5.00 per 100. Extra value, sure to please.....

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PANSY PLANTS!

Stocky plants from Engle's select strain, $4.00 per 1000, cash.

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Strong, 3-inch, one year.....$2.50 per 100
" 2½ " " " 2.00 "

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HERR'S PANSIES. BUY THE BEST

SEED at $1.50 per ounce. A liberal packet for $1.00.
PLANTS at 75 cts. per 100, or $4.00 per 1000; 250 for $1.00, by express.

ALBERT M. HERR, LANCASTER, PA.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphetos, Kaiserin, 3 and 4-inch.

Asparagus Plumosus, all sizes. **MARIE LOUISE VIOLETS,** young plants, well rooted.

A. S. MacBEAN, Lakewood, N. J.

PANSIES

Roemer's Superb Prize Pansies.

This improved strain includes all the leading novelties, strong, bushy plants, ready now, 60c. per 100, by mail; $2.00 per 500, by express; $4.00 per 1000; $7.00 per 2000; $10.00 per 3000.
CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

Cabbage and Lettuce Plants

CABBAGE, Jersey Wakefield, Chas. Wakefield, Early Summer, Il. Succession and New Early.

LETTUCE, Big Boston, Boston Market, White Loaf, Tennis Ball, Grand Rapids, Curled Simpson.

15 cts. per 100, $1.00 per 1000, $8.50 per 10,000.
If by mail, add 10 cts. per 100.

TOMATO LORILLARD, pot grown, 25 cents per dozen; $2.00 per 100.

CAULIFLOWER SNOWBALL, 35 cents per 100.

R. VINCENT, Jr., & SON, White Marsh, Md.

DOWN THEY GO, FOR WE MUST HAVE THE ROOM!

VIOLETS. Marie Louise, field-grown clumps, strong and absolutely clean and healthy. $3.00 a 100, $25 00 a 1000. Seconds (inferior only in size), one-half above prices.

SMILAX, 2½-in., fine, twice headed back. 75 cents a 100, $5.00 a 1000.

Cash with order. Order soon, as stock is limited.

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Mention the American Florist.

THE MORRIS FLORAL CO.,

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Wholesale Growers of Plants

in season for florists.

100,000 2¼-inch plants now ready, at $2.00 per 100.
Send for fall price list.

WANT ANY.... Pelargoniums?

I have a fine lot in the BEST varieties; strong 2½-in. stock at $7.00 and $9.00 per 100. Address.....

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Pink Paeony Clumps FOR FALL PLANTING

At $10.00 per 100. Will divide into two and three. Easily cultivated; need no protection during winter. Any florist having land will find them big payers. Freight any distance.....

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Hydrangea Otaksa.

Fine 6-inch pot plants, at $23 per 100
" 5 " " " 20 " "

DRACAENA INDIVISA, pot grown, 6-inch 20 " "
" " " " 5 " 15 " "

UMBRELLA PLANTS, 3 and 4-inch, $3 and 4 " "

See Convention Number for other stock.

CARL HAGENBURGER, - West Mentor, O.
CASH, PLEASE.

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NOW READY!

STRONG CANNA TUBERS

of 1 to 3 eyes.

NEW—Florida, Gloriosa, Surprise, Pres. McKinley, $5 00 per 100.

Mme. A. Bouvier, Flamingo, Alsace, Souv. de Antoine Crozy. $3.50 per 100.

Italia, Queen Charlotte, Chicago, Philadelphia, Eldorado, Comte de Bouchand, Papa, Glory de Montet. $2.00 per 100.

Burbank, Florence Vaughan, Egandale, Salmon Queen, Sunset Glow, Mme. Crozy, Chas. Henderson, A. Bouvier, John Laing, Paul Marquant, Austria, and many more. $1 50 per 100.

Fall 1000 of Burbank, Austria or Evandale, $8.00
Fall 1000 of Florence Vaughan or Queen Charlotte, $15.00. (All others named, 10 per cent. off by the 1000.)

ORDER NOW. Nothing reserved at these figures.

F. O. B. Express or Fast Freight.

Pampas Plumes. Crop 1898.

Size in length, exclusive stems. First-class in every respect.

	Per 100
17 to 20 inches	$.75
20 to 22 inches	1.00
22 to 24 inches	1.25
24 to 27 inches	2.00
27 to 30 inches	3.00

Pampas Grove Nurseries, Greenland P. O., Fla.

SPECIAL BARGAIN OFFER NEW CROP PANSY SEED All the Giant and Fancy Strains that are to be had, either in this Country or Europe. Specially made up by us from all the separate colors; and is without question the finest strain of large flowering Pansies. **ONLY 14 CENTS** per trade packet of 500 seeds, or **8 CENTS** for ½ trade packet of 250 seeds; with illustrated directions how to grow big Pansies.

S. Y. HAINES & CO. 105 Boston Block, MINNEAPOLIS, MINN.

Pansies Worth Raising.

EXCELLENT SEED.

3-16 oz. $1.00; 1 oz. $4.00; up in 8 to 10 days, if properly treated.

FINE STOCKY PLANTS, $4 00 per 1000. f. o. b. express. **CASH WITH ORDER.**

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

Standard Cannas. Fall Delivery.

Mme. Crozy,	20c. per clump	Italia,	25c. per clump
Chas. Henderson.		Queen Charlotte,	
Paul Marquant,		Burbank,	
Austria,		Florence Vaughan,	
Paul Bruant,		Flamingo,	
Bouvier,		Philadelphia,	

F. O. B. Warsaw. Cash or references.

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ROOTED CUTTINGS. Well Rooted

PETUNIAS, 4 vars., 20c per dozen, $1.25 per 100
STROBILANTHES and HELIOTROPE, 20c per dozen, $1.25 per 100
VERBENAS, 12 vars., 15c per doz., 70c per 100, $6 per 1000.
COLEUS, 10 vars., 15c per dozen, 75c per 100, $5 per 1000.

Sent prepaid anywhere.

S. T. DANLEY, Macomb, Ill.

300,000 Pansy Plants The JENNINGS Strain.

Fine field-grown, stocky plants, in great variety of colors. All large flowering.

By mail, 75 cts. per 100; express, $4.00 per 1000; 5000, $18.00. Seed of above, $1.00 per pkt.; $5.00 per ounce.
CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, **Southport, Conn.**
Grower of the Finest Pansies.

Grand Rapids, Mich.

Roses are looking well, with a good many more planted than last year and American Beauties are in better shape this year than ever. Violets promise a big crop of fine flowers and several of the growers will commence to ship next week. Carnations are all housed and looking fine. Flora Hill seems to be the favorite white and Jubilee the best red. Most of the growers are trying some of the new kinds. Evelina has made an excellent growth in the field and is very promising, as are also Genesee, White Cloud, Mrs. McBurney, and Armazindy. Mayor Pingree is looking well where it was field grown. Some of our growers planted some of this variety inside this year, but all pronounce it a failure.

The parks are still looking fine, as we have had no frost to injure even the most tender plants and the bedding shows as well now as at any time during the summer. Greenhouse building is about completed and there has been more of it this summer than in several years past. We are all looking for a prosperous winter season.

Crabb & Hunter exhibited some fine blooms of Bergmann chrysanthemum and a vase of fine roses at the last Florists' Club meeting and Henry Smith showed a vase of American Beauties. Frank Paine, of Traverse City, was a visiting member. He reports trade very satisfactory in his section.

Paul Gobel, Crabb & Hunter, the City Greenhouse and Henry Smith have each added a new boiler.

The State Fair was a success both as to exhibits, which were large and fine, and attendance, which was the largest we have had in years. Wm. Cunningham, James Schols, Crabb & Hunter and Henry Smith competed for the prizes, with honors well distributed. Wencil Cukerski, the park superintendent, acted as judge.

HENRY SMITH.

BURLINGTON, IA.—John Nordean is erecting a new residence on his lots on Foster street.

Fine Strong **WILLOW HOOPS**
or rings, 11 inches diameter, for
HOLLY WREATHS will be furnished at low prices on early orders, by the original growers and manufacturers. Our rings are strongest and best for building up good, substantial wreaths.
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FLOWER POTS
ALL KINDS.
STANDARD POTS A SPECIALTY
List and SAMPLES FREE.
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MANUFACTURERS OF
Flower Pots.
Before buying write for prices.
361-363 Herndon Street
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Standard FLOWER **Pots**
If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.
W. H. ERNEST,
Station M, N. E. WASHINGTON, D. C.

VAUGHAN'S "ROSE GROWER" BONE MEAL.



This is a special brand we have put up for our trade. It is ground fine, hence acts quickly. Free from acid, very light in appearance, and a superb article. It is made from bone accumulated in large slaughter houses and should not be compared with the Bone Meal made from cattle heads and feet gathered up on the Western prairies. Such Bone Meal, which is dark in color, is flinty in character, slower to act and not nearly so desirable as our "Rose Grower" bone. Furthermore, the bones of many diseased animals are used in the manufacture of that dark Bone Meal and it is therefore a little dangerous. Our "Rose Grower" bone has been slightly steamed to soften it so it can be ground fine and is thus quicker in its action. The finer bone is ground the quicker the mild acid thrown out by the tiny roots of the plant can dissolve the bone and make use of it as food. A finely ground bone can also be more evenly distributed through the soil. ANALYSIS:—Ammonia, 4½ to 5½ per cent; total phosphoric acid, 22 to 25 per cent; total bone phosphate, 48 to 54 per cent.

Price, 5 lbs., 25c.; 10 lbs., 40c.; 25 lbs., 60c.; 50 lbs., $1.00; 100 lbs., $2.00; 200 lbs., $3.50; 500 lbs., $8.00; 1000 lbs., $15.50, 2000 lbs., $30.00.

VAUGHAN'S SEED STORE, 84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

THE HARRISH DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent.

KRAFT'S PLANT TONIC

THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25 cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.
THIS INSECTICIDE IS NON-POISONOUS.
KRAFT PLANT TONIC CO., - ROCKFORD, ILL.

Standard Flower Pots...
OUR POTS ARE OF THE BEST QUALITY.
We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.
☞ Write us before placing your orders elsewhere.....
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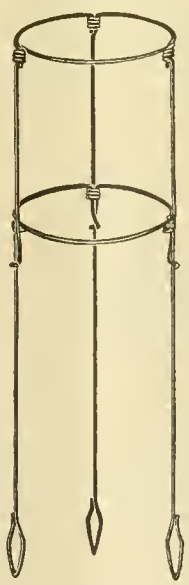


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Standard Pots Made by
Good Railroad Facilities For shipping.
Special Attention Given to Mail Orders, and Special Sizes Made to Order.
KELLER BROS.
NORRISTOWN, PA.
Price Lists Furnished on Application.

THOSE RED POTS
"STANDARDS"
FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.
DETROIT FLOWER POT M'F'Y,
HARRY BALSLEY, Rep. DETROIT, MICH., 490 HOWARD ST.

The MODEL Extension Carnation Support



QUEENS, N. Y., Feb. 16, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97
MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem. Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, 97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes
AT LOWEST PRICES.
Write for Prices, Circular and Special Discounts for Early Orders.
The Model Plant Stake Co.,
THERON PARKER, Mgr., Inventor and Patentee,
22 MORTON STREET BROOKLYN, N. Y.
Mention American Florist.

SAVE 25 PER CENT
on your FLOWER POTS. Send for price list and Bargains to
HILFINGER BROS. POTTERY, Fort Edward, N. Y.

Helpful Reminders.

All seedlings of perennials should be transplanted now, including pansies. Make a bed as wide as you can conveniently reach over and plant the seedlings in rows, the distance of course to be governed by the variety; but make the bed deep and rich, also light enough to allow the plants to be easily lifted without breaking roots. The perennials are very much sought after nowadays and it is necessary to have a good well grown stock. Nice plants sell for as much as geraniums in the spring and do not require greenhouse room. Those who do a cut flower or decoration business will find that the flowers cut from the unsold plants yield as much as the plants would have brought had they been sold. By arranging a long bed so as to have compartments for each variety, one soon becomes thoroughly acquainted with their colors and general character. A bed of useful perennials may be maintained without any considerable expense beyond a little labor and an occasional application of manure, and for this trifling outlay it will add to the receipts one or two dollars a day from earliest spring to late in fall. C. B. W.

FALMOUTH, MASS.—The Falmouth horticultural exhibition was a success as a show, but not so financially, as it is doubtful if the receipts will pay expenses and premiums.

LINCOLN, ILL.—W. H. Gullett & Sons have sold their retail store at Decatur, Ill., to N. Bommersbach. The branch is about one year old and has been doing a prosperous business.

NATIVE GUANO!
(Desiccated Night Soil.)
The ideal florist fertilizer: contains in available condition, all the elements of plant food. Pleasant to handle. By bag, ton or carload.
STANDARD FERTILIZER CO.,
1822 Filbert St. PHILADELPHIA

Sheep Manure!
IN BULK — Per ton
Pulverized, car lots..... $8 00
Natural, car lots..... 4 00
IN SACKS OR BARRELS
Pulverized, less than car lots..... 12.00
Natural, less than car lots..... 8 00
F. O. B. cars here.
Mitchell, So. Dakota. E. C. NEWBURY.


32-page pamphlet on
"Ashes as a Fertilizer,"
for the asking. Every farmer should have one.
GEO. STEVENS,
PETERBORO', ONT., Canada

SCOLLAY
SPRINKLER...
INDISPENSABLE
J. A. Scollay, Maker,
74 Myrtle Ave.
Brooklyn, N. Y.


VAUGHAN'S SEED STORE, Gen'l Western Agents,
84 Randolph St., CHICAGO.

THE BEST FOR ALL Florists'
"ROSE LEAF" EXTRACT OF TOBACCO INSECTICIDE
FOR SALE BY SEED STORES
FOR FREE PAMPHLET WRITE TO
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GREENHOUSE GLASS
OUR SPECIALTY.
LARGE STOCK — PROMPT SHIPMENT.
ALSO MANUFACTURERS OF Pure Linseed Oil Putty, Paints, Brushes Etc.
WRITE FOR LATEST PRICES

WHEELER-STENZEL CO.
IMPORTERS AND JOBBERS OF
Make your contracts for next season now. We can deliver to any part of the country and Save You Money.....
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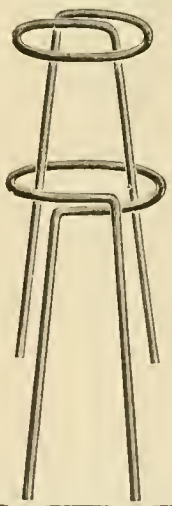
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GULF CYPRESS BARS, ETC.
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WHITE LEAD, PUTTY, Etc., at Wholesale. Estimates Cheerfully Furnished.


GREENHOUSE MATERIAL
Cal. Red Cedar and Louisiana Cypress.
BEST GRADES. PERFECT WORKMANSHIP.
A. DIETSCH & CO. 615-621 SHEFFIELD AVE. CHICAGO, ILL.


NIKOTEEN
IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE
DOES NOT INJURE THE MOST SENSITIVE PLANTS- ENDORSED BY PROMINENT FLORISTS- USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT- 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN ~~~ CIRCULAR FREE ~~~ SKABCURA DIP CO. CHICAGO.
Kill AND SAVE the THE BLOOMS Bugs!
QUICKLY DOES IT.
Mention the American Florist.

Sulpho-Tobacco Soap
Universal Insecticide
For Flowers, Trees and Animals.
Recommended and in use by the foremost florists and nurserymen in the land.
For Sale at the Seed Stores.
ROSE MFG. CO.
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Notes and Comments.

For a number of years there have been advocates for a flower market for the benefit of the growers who largely cater to the floricultural wants of the cut flower dealers in the Quaker City, but so far the grower with much perseverence, apparently, persistently refuses to see wherein such arrangement would be any improvement upon that now in practice.

In talking about a flower market a day or two ago, the idea was advanced that it would sometimes embarrass a grower when his favorite customers were behind time in arriving at the market, and a casual caller and a customer not so desirable wanted just the flowers he had for sale and wanted them immediately and in larger quantity than the grower felt justified in selling on account of the possible needs of a more desirable customer who did not happen to be on hand early enough to make his usual purchases.

It is well known in all business circles that there is a following which it is desirable to cultivate, and a laudable endeavor is put forward to satisfy the same. The best customers are those who are fair and not too unreasonable in their demands, and who do not too long defer payment of their bills. The present plan mostly in vogue in Philadelphia is that where the growers or their salesmen deliver daily orders to the dealers, which has the advantage of allowing the man who has the expense and anxiety of the production of the commodities for sale of discriminating between dealers who exercise judgment in their purchase and are just in their dealings, paying their bills promptly, and those who have not those prime requisites. The latter are not entitled to the same consideration from a business point of view, or from any other, as the former.

If it were advisable to establish a rule to the effect that everything bought at the market be paid for spot cash, everybody would then be on an equal footing, and all growers will join hands if a reasonable guarantee is promised that collections will be made more promptly if a flower market is established. E. L.

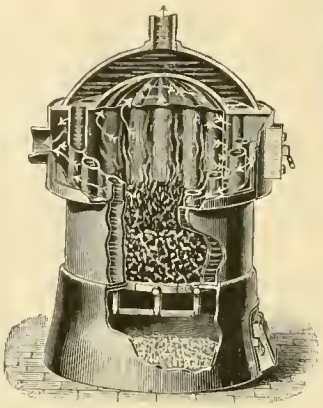
Worcester, Mass.

We are experiencing seasonable weather at present and the mercury drops low enough nights to make firing a necessity. We are now getting an adequate supply of good stock. Chrysanthemums are a week later than last year. Carnations are coming along nicely but the fancy varieties are a bit slow, as most growers keep the fancies till after the chrysanthemum season is past. Roses are plentiful and are fast losing the slight trace of mildew that was noticeable earlier in the season. We are getting plenty of single violets and a few fairly good double ones. Trade remains steady and the sales of the Boston fern show that it has not lost its popularity and is probably the most satisfactory house plant offered to the public.

A. H. L.

Springfield, Ill.

At the State Fair the exhibit of cut flowers was unusually fine. The South Side Floral Company, H. P. Buckley manager, made a very large display and captured all the first premiums for both roses and carnations except one in each and were second in those. Their showing of fringed double petunias and their splendid collection of mammoth verbenas attracted more attention than even the roses and Mr. Buckley writes that on these flowers they are able this season to challenge the world.



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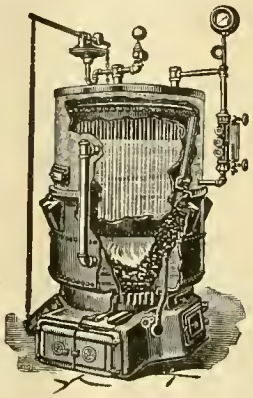
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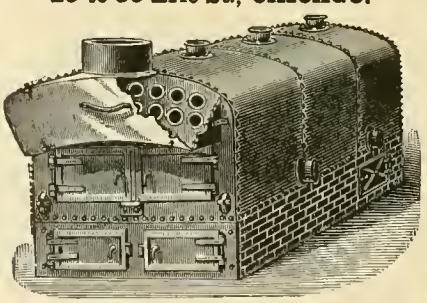
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Poughkeepsie, N. Y.

The Dutchess County Horticultural Society met at Poughkeepsie, October 5. There was a large attendance and one new member was elected. It was reported by the exhibition committee that on account of the Millbrook chrysanthemum exhibition being held on November 10, 11 and 12, the Dutchess County Horticultural Society's exhibition will be held November 2, 3 and 4. Several special prizes were reported offered, a list of which will be printed at once. Among them are $10 for three varieties of pink chrysanthemums, Viviand Morel excluded; $10 for twelve new varieties introduced in 1897 and 1898; $10 offered on each day for table decorations, first day, roses, dinner; second day, chrysanthemums, luncheon; third day, any variety of flowers, luncheon. Ladies of the Annandale Rose Society will act as judges of these tables. A fine collection of dahlias was exhibited by I. L. Powell, of Millbrook. A paper was read by Arthur A. Loughren, Poughkeepsie, entitled, "How Parks Should be Managed." W. G. G.

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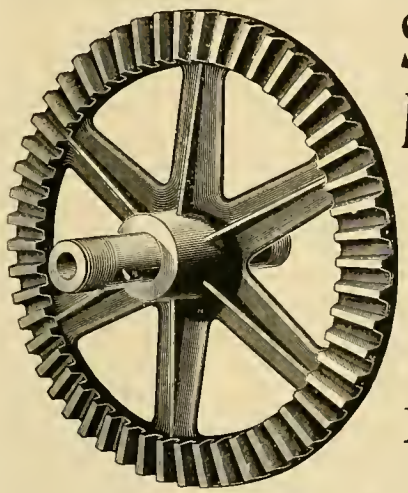
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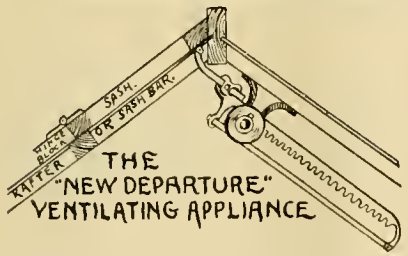


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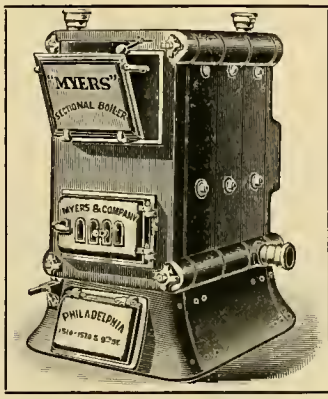
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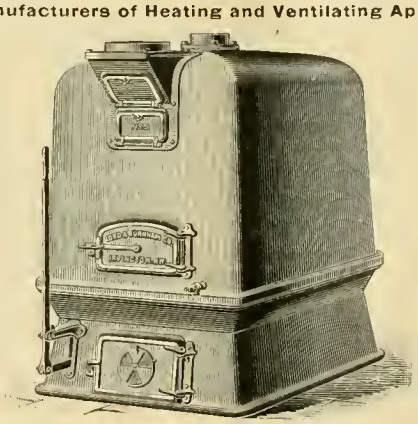
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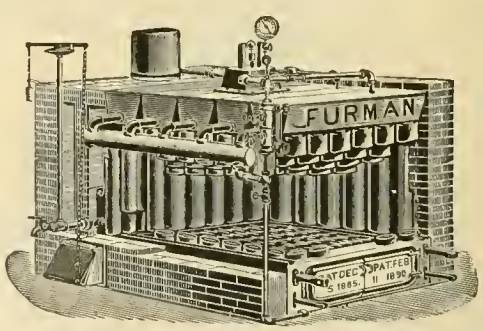
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OFFICERS-ELECT [to be installed Jan. 1, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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SALEM, MASS.—The firm of T. W. Head & Co. has been dissolved. The business will be continued by H. T. Conant.

Studies in Stiff Flowers.

He is a florist of limited experience who has never been met with a customer's objection to the use of many flowers such as callas, gladioli, tulips, etc., in over-aesthetic language something like this: "O, they are too stiff and coarse; I don't admire those stiff flowers and leaves!" How to refute such statements has led to a closer study of the facts in the case. With the accompanying illustration of an arrangement of gladioli, which are as good examples of the so-called stiff flowers as can be had, perhaps it can be discovered how near to the truth our friends have drifted. In the most correct and strict use of the term, what does the word stiff mean? Mr. Webster says that it signifies rigid, unbending, pertinacious, constrained, formal qualities, and we think of stubborn and ungraceful things as their first cousins. Now, apply the test. Is there a leaf, bud or bloom stalk that is in the least unbending, rigid, constrained, formal, stubborn or ungraceful? Is there a single vein in one of the leaves that even pretends to be straight, letting alone all the rest? Most of the stalks in the picture bend perceptibly, all of the leaves twist, and the veins appear and disappear. There is in the grouping no mathematical balance except the comfortable and easy air of freedom. It is a sturdy but not a starchy grace that we so much admire in this class of heavy stemmed flowers. Therefore if our word-study is correct and our description accurate, it must follow that we are safe in assuming that our model is not a stiff flower in any sense.

How am I to convince a customer to her satisfaction and my profit, that my statement is true? I must be able to demonstrate my theory on the spot. To show to the best advantage such flowers, neither a rose bowl nor a straight receptacle is the better. Something with a compound curved outline to emphasize that same tendency in the general trend of the flower stalk is preferable. The principle from which this rule is derived will be discussed farther on. Let a few stalks drop into the dish and fall as they please. They will never all point out or in monotonously, but will form little neighborly groups, one inclined towards another, while another clique takes another direction, and a solitary stalk bends over lonesomely. This natural grouping, which occurs whenever a fair chance is given, is exceedingly interesting and suggestive, the flowers never failing to assume a more graceful and easy position than one's hand could direct. The same is true with regard to flat bunches. Some heavy, sturdy stalks fully open seem to belong to the lower part while the half-open smaller spikes top the cluster, and those crooked stems find their places at the sides or across the other stems. A perspective or depth is another necessity to an upright bunch. Some side views, some backs, some profiles, and some extending far out behind, as well as full front views are necessary. Yet with all this diversity of position it is also essential that the lines of projection have a common source, thus indicating the unity in design. This principle is a broad one and cannot be elaborated upon at present.

In the illustration no leaf or stem is bent from its natural line of growth. Much of the natural grace of form and curvature is due to the buds which top nearly all of the spikes, and which give a distinct point effect. Here is a very important fact. One who is interested in the study of design as a whole, in its widest sense, is constantly impressed with the frequent occurance of points. It seems as though every unit of form tends to points, points everywhere, whether singly or in complex shape. Even apparently round or elliptical leaves and petals end in smooth or ragged points. Mostly in general form and almost invariably in detail or subordinate terminals there is the everlasting point tendency looming up, or down, or out—trees, as the elm, pine, hemlock, tree fern, willow, being conspicuous examples, as well as flowers or parts of flowers, as petals and foliage of the rose and of the carnation, noticeably fringed or not fringed, also lilies, violets, bouvardias, stevia, smilax blooms and their tiny relatives in blooming vines. In mosses and ferns from the lowest forms through the most intricate, there they are, round, blunt, long, slender, tapering, complete or interrupted it seems to be the universal tendency. Now, of what practical use is this fact to a worker in cut flowers? Just this, at least: Where the tendency to points is very marked in individual flowers or inflorescence, it should be respected and adopted in bunching or grouping the same, as in the examples quoted above in gladioli. If roses to be used are Brides or Bridesmaids, being distinctly long buds, they appear best in a pointed cluster, not necessarily confined to one point, however.

It is largely the fault of professionals that any flowers are called stiff. They do not receive the proper setting and grouping. For summer decorations we have used gladioli more than ever this year and are more than satisfied with results. We think we have gained for them a better place in the estimation of a good class of customers, not only on account of their reasonable price, but because they are

better appreciated for their superb decorative qualities. To be sure, they cannot be used anywhere and everywhere. Their surroundings must be in keeping with their characteristics. In large apartments, halls and churches, where richness and grandeur prevail, they are at home. They mingle sulkily with other flowers, being sufficient of themselves. For funerals of elderly people their richness and dignity are fitting tributes to completed attainments. Like all other flowers their graceful proportions and lengths are seriously interfered with on being cut short and stuck in a design frame, and their beauty deteriorates to second class.

Now, mere suggestions are useful and easy to adopt, but to discern, to originate, to study, where one discovers principles and laws which govern natural arrangements is more difficult, but far better. For instance, I have spread out before me a number of Roman hyacinths or lilies of the valley, and I desire, of course, to produce the most artistic and attractive bouquet possible. I must from the start, have some idea how to proceed. Suppose I look to the flower itself for some hints; I can see at once that its prominent characteristic in form is a long slender point, and this gives me the key to the shape of a cluster which would be most natural and happy in its effect. I use the natural foliage only, because its form is in perfect accord with the principle which governs the form of the flower clusters. I also use narrow ribbon to complete the harmony. The whole is one large raceme as is also any one of its factors, and it may be graceful and beautiful like the pattern.

To pass intelligent judgment upon floral arrangements, to defend our own opinions, are not the only desirable attainments for us. We should not rest satisfied until we can recognize the principles underlying our own work and those governing ornament of other kinds. Through our frequent use of natural objects it ought to be easier to do substantial thinking and investigating along the line of art in general. G. B.



AN ARRANGEMENT OF GLADIOLI.

CARNATIONS.

INDOOR CARNATIONS.

Our indoor grown carnations are making great strides just now and as far as size of plant, color and health are concerned we fail to see how anyone could wish for better. One thing which impresses us very favorably and which goes a long way toward compensating for the extra care we have bestowed on plants grown under glass is the absence of stem rot.

This has always been a very serious matter with us, the mortality among the plants in the field being sometimes considerably over fifteen per cent, especially through a wet season like the one just passed, but this year we have lost only eleven plants.

We have the plants all staked and tied up now and are giving the beds a mulching of well rotted manure, arranging matters so as to have the beds in such a condition that after the mulch is put on they can have a good watering to settle it in its place. The mulch should be made as fine as possible and spread evenly over the bed, care being taken not to have it too thick at the base of the plant. We always aim to leave a little space directly around the stem to guard against rot. The weather has been such that no fire heat has yet been necessary, but should the outside temperature fall a little steam will be put on without delay and the ventilators left open a trifle so as to maintain the proper temperature.

A close watch must be maintained for red spider which will sometimes put in an appearance in spite of guarding against it by giving ample ventilation and keeping an even temperature. Now that the plants are throwing up young, soft growths the greenfly should be attended to by frequent fumigating. As soon as the steam can be used give one of the pipes a painting of lime and sulphur, which helps to keep down red spider and puts a check on other diseases.

For some time we have been cutting fine blooms with long stems from Mrs. McBurney, the flowers being uniformly even and of good color, although slightly penciled with deeper pink, which we find will leave it as the season advances. This variety has gained greatly in vigor since last season and plants with yellow or spotted foliage are very scarce, due principally to the selection of good cuttings for propagation and to another weeding out at planting time. Flora Hill is also in full crop, fully equal to what we had last January, although the stems are not quite as long, and with the young growths that are pushing up this variety bids fair to beat its last year's work. Jubilee is also throwing a great many early blooms, although, like most of the reds at this time of the year, a great many of them are mottled with white. We find Jubilee to be a cold weather carnation; it does not like heat at all, that is, so far as the flower is concerned.

Mayor Pingree is somewhat later than the others sorts but it gives every promise of doing what is expected of it through the winter. The plants are throwing up a big crop of young shoots. Cerise Queen made better growth than we thought it would early in the season but it resembles Tidal Wave in that it throws very short stems so we have not allowed it to bloom early, but we notice an improvement in this respect right along and build our hopes for better things later on. C. W. JOHNSON.

CULTURAL NOTES.

October 22.—A few weeks ago I met a successful grower of carnations who told me that he had all of his stock in 4-inch pots during the summer. Three years ago he tried about 500 in this manner and the results were so satisfactory that the following year he potted up about half his stock and as the results continued satisfactory, this year he potted them all and is well pleased with the results.

Being deeply interested in any method of growing carnations that will give better results, I visited this gentleman's establishment last week. The plants were growing nicely, clean and healthy from the top to the last leaf next the soil, but in size they were woefully lacking.

They were, in comparison to what I am accustomed to call good sized plants, not second or third but about fifth size. This fall I sent a small shipment of carnation plants from the field that were fully three times the size of these pot plants. In place of the check expected in return for them, a letter was received in which I was called anything but a gentleman and the stock everything but good. This stock I considered fairly good, although the party receiving it classed it as decidedly "bum," yet here was a good and successful grower who would consider the plants fine in every respect.

All this goes to show how little one can judge a man's stock from a conversation, an article, or another's opinion of the same, for standards seem to be about as wide apart as the Pacific and the Atlantic between San Francisco and New York. This grower I know was perfectly sincere in his statements, yet, taking my standard, I expected to find plants of good size and such plants as would produce a crop of flowers for the holidays. Instead of this, still judging from my own standard, these plants will not produce their proper ratio of flowers per month before the middle of January or the first of February.

Right here I will add that I have yet to see the house of indoor grown carnations or carnations grown otherwise than by the good, old fashioned, outdoor method, which will bear their proper ratio of bloom per month beginning with December and ending with May or June. All of these improved-cultural-method-grown carnations that it has been my good fortune to have seen, and I have traveled just a few thousand miles to see them, are in such shape that it takes them until February 1 to be in what, judging from my standard, I call December 1 condition.

Do not, however, imagine that I always have my own stock up to the standard; it is often many degrees away, but I have always been able to get closer to it by field culture than by any other method I have seen or tried. Our Mr. Rudd, of Mt. Greenwood, Ill., has, from what I can learn, ideal plants grown under glass all summer and as the American Carnation Society is to have a paper at its next meeting descriptive of Mr. Rudd's methods we will perhaps get some new ideas regarding the culture of the carnation.

Getting back to the establishment under discussion; it is an all around place in which nearly everything is grown and the stock and cut of which is all sold by the proprietor in a retail way. The place shows prosperity and good management in everything and I was told the proprietor is the most successful grower in that section. Judging from this his carnations were paying him and were just in the condition he wanted them. They were producing some fine flowers, better than he could be cutting now from field grown stock and as he had quite a large number of plants I suppose the crop was heavy enough for present demands.

One can write and read and visit growers and exchange ideas and yet, when it is all sifted down, each must adapt his methods to his market and soil and climatic conditions. A grower who is producing nothing but carnations and for a wholesale market has to adopt very different methods from the one who retails his own cut and it sometimes seems that if the retailer were to carefully estimate the cost per hundred of his carnations he would buy from the exclusive carnation grower and be money in pocket by the transaction.

ALBERT M. HERR.



HICORIA OVATA.

Hicoria Ovata.

This is the hickory or shagbark of the northern United States, well known among the boys and girls of New England, where the sweet meated nut is sold extensively in the market. The hickory is one of the grandest of American trees. It is effective in woodland or as a specimen and there is nothing more beautiful than a solid grove of hickories. Its only fault is its lateness in leafing out in spring and earliness in dropping its foliage in fall. It is particularly handsome in spring when the leaf buds, half unfolded, resemble large tulips.

The finest variety known is Hale's Paper Shell hickory, which originated in Ridgewood, N. J. It bears a very fine fruit and the shell is as its name signifies very delicate and easily crushed. If a ready method of propagation were known this tree would no doubt be largely planted for its fruit, but grafting, which is the only mode of propagating a variety, is not easy with the hickory and the grafts start into growth very reluctantly. The best stock, according to Jackson Dawson, is Carya amara, the bitter nut. Mr. Dawson procured twenty-five scions of Hale's variety last spring and on May 30, grafted them on young hickories in the woods, six to eight feet high. Four out of the twenty-five are growing nicely and he considers this a good return, although under different conditions with grafts in just the right state he thinks he could double this record.

The specimen illustrated is growing in the Botanic Gardens, Bronx Park, New York, near the Station, and is probably about fifty years of age. H. ovata is also known as Carya alba.

CHRYSANTHEMUMS.

WORK OF THE COMMITTEES.

There were two seedlings submitted to the committees October 15, which scored as follows:

PHILADELPHIA, PA.—Wm. Paul Binder, Rider, Md., exhibited Willowbrook, Japanese; white, slightly tinged lemon; scored commercial scale 85, exhibition scale 81 points.

CINCINNATI, O.—Nathan Smith & Son, Adrian, Mich., exhibited Kuno, Japanese; white, scored commercial scale 87 points.

ELMER D. SMITH, Sec'y.

SEEDLING AT PHILADELPHIA.

One seedling chrysanthemum only came to Philadelphia for examination by the

committee appointed for that purpose by the Chrysanthemum Society of America to act in the Quaker City during the year 1898. It proved to be Japanese in type, creamy white in color, and Willowbrook by name. It appeared to be better suited for commercial purposes than for exhibition, being somewhat small, but taking the earliness of the season into consideration, it is fairly good in size. As it appeared to the undersigned it partakes somewhat of the form of Domination or Mrs. Geo. Bullock; the florets are similar, so also is the color. PHIL. A. DELPHIA.

An Iowa Establishment.

When C. G. Anderson and Charles Olson purchased, a year ago, their place at Atlantic, Iowa, they had but two houses. They have since built three structures each seventy-five feet long and have created the thoroughly modern establishment shown in the accompanying illustration. They produce both cut flowers and bedding and decorative plants. Anderson & Co. are able to report a prosperous business not only in Atlantic, but in the surrounding towns and see ahead of them an exceptionally bright prospect.

More About Watering.

The "Notes on Watering," by Frederic Cranefield, published in the AMERICAN FLORIST of October 1, 1898, prove to be very interesting, although somewhat lacking in detail. And it may be also said that two or three photographs taken at intervals would have given a much better idea of the results obtained from this peculiar treatment than can be had from the article in question.

The period of these experiments is also rather indefinitely stated by Mr. Cranefield as being "continued in the same manner for several weeks." It is, however, news to the writer that coleus will endure drenching frequently with water at a temperature of 35°, both overhead and at the roots, without at least dropping its leaves or otherwise showing the severe check to which it has thus been subjected, and the fact thus stated seems the more strange when we know that an exposure to a temperature of 35° even for a few hours usually results in a very dingy appearance and loss of color in a bed of coleus outdoors.

Mr. Cranefield also states that "all grew well, but that the 50° and 86° lots were growing taller than the others, and that between the 35° and 65° lots there was but a slight difference in favor of the 65° lot." Also "it was remarked during the course of the experiment that these (the cold water lots) were as large as the warm water plants, and at the close this was found to be true when the plants were all weighed and the results showed a slight gain in favor of the 50° lot."

From these two sentences it would appear that the evidence was in favor of moderation; namely, in the use of water at a temperature between 50° and 65°, but it seems that the "intangible evidence" that Mr. Cranefield refers to must have more weight than the facts published in order to influence him to the opiuion "that the temperature of water as applied to plants under glass had but little if any influence on growth if between the limits of 35° and 100° Fahrenheit."

The matter of watering being of so much importance in our business I feel sure that the additional details promised by Mr. Cranefield at a later date will be welcomed, for I take it there are many who, like the writer, are quite ready to absorb and utilize new ideas, even though some of them may at first sight appear contrary to the experience of twenty-five or more years. And in this connection an instance may be cited where the use of very cold water did prove injurious, the plants injured being Kentia Belmoreana. On two occasions I have noted in a house filled with Kentia Belmoreana more or less injury done by a heavy syringing with water at 36° to 38°, the injury being in the form of semi-transparent spots formed on the young leaves, these spots being precisely the same as those produced by a slight exposure to frost, and while all the spots did not result in a permanent mark on the leaf, yet some of them did, and thus detracted from their value. The water used in this case was hydrant water, and it is only occasionally after a severe cold snap in the winter that so low a temperature is experienced. W. H. TAPLIN.

American Seed Growing.

DEVELOPMENT OF NEW VARIETIES.

A requisite for successful seed growing, indeed, the one which comes first in logical sequence, is a familiarity with the natural character, the possible uses and the desirable qualities of that particular vegetable or flower. But writers seldom touch on these points, it being assumed, either that as questions of quality and beauty they are matters of individual taste and so not to be discussed, or that the reader knows what is really good and does not need to be told.

I doubt, however, if there is a large proportion of the readers of the AMERICAN FLORIST who could state, or who have very clear ideas of just what, in every respect, are desirable qualities, say of a bean to be used as a snap or butter bean, or what are the most important points of merit in a sweet pea. Much less could they tell why they are so. Even seedsmen do not always know and because of their ignorance on these points, and that of their customers, a great deal of horticultural energy is annually wasted in developing, selling and cultivating new varieties, "novelties," the distinguishing characteristic of which, that which makes them new, is of no practical value, the improvement being no real improvement but often even an actual deterioration.

Whether the reader believes, as I do, in a personal Creator, and that every single flower that opens in field or forest is there because of His personal sentient care, or that they are simply the outcome of impersonal and unchanging natural law, he must feel, in proportion as he has carefully studied nature, that in its adjustments and the adaptation of every living organism, of every inorganic element, to its particular place and work, nature is far beyond his or any man's improvement; that in its natural environment, and to fill its place in the making up of the whole, the wild bean is better than our most improved varieties; the original sweet pea better than a Stella Morse or Cupid.

Man cannot improve or make better for its place and work in the natural world, a single plant. What he can and what he should strive to do is to change and modify them so that they may better meet new conditions of life and use, may fit better into an artificial world of his own creation. To do this intelligently he must not only know his plant and recognize the place in the natural world which it was created to fill; must, like Prof. Bailey, see something more than a a weed in a burdock, but must have a clear conception of just the place in his artificial world into which he would fit it.

Looking at the wild sweet pea he must feel its graceful and delicate beauty and recognize that these are the qualities which give it its charm and not attempt to develop in it the brilliant intensity and contrast of color which give the canna, dahlia and coreopsis their value. It is the graceful poise and the delicate and often blended, but not contrasted, colors which make the sweet pea so useful and popular. One with the markings and brilliant intensity of color of a Florence Vaughan or Chas. Henderson canna would be a novelty but of little value. Try substituting for the bunch of Blanche Ferry, which gives such life and beauty to your dress, one of Scarlet Runner bean and you will be convinced that it is not intensity of color which is wanted.

It may be said that in Blanche Ferry, the most popular of sweet peas, we have a contrast of color but it is because there is not contrast, at least not the sort of contrast one admires in Madam Crozy canna, that the sort is so beautiful. The wings are called white, but they are not white, but shaded red in such a way as to present a sharp contrast of color. Paint, or make of wax, a bunch of Blanche Ferry having wings like the standard of Emily Henderson and you will see how inferior in beauty it is to the normal flower. Yet I have often heard florists wish they could get a Blanche Ferry with clear white wings, but nature is kind and sometimes will not let men make blunders.

The same principle of usefulness being essential to value holds in all vegetable variation from lilies to turnips. A sweet corn with red or yellow grains might be more beautiful and as good in quality as one with white, and find a place in a few gardens, but the canner who used it would be likely to lose money. A certain



ESTABLISMENT OF C. G. ANDERSON & CO., ATLANTIC, IOWA.

variety of culinary peas has disappeared from our gardens because, though hardy, very productive and of the finest quality, it was more work to get the peas out of the pod than in most sorts. I think these illustrations show that to be really valuable a variation must not only be distinct and of good quality, but must be adapted to some especial use.

WILL W. TRACY.

New York.

WHOLESALE PRICES VERY LOW.—RETAILERS DOING SATISFACTORY BUSINESS.—OVERSTOCK IN ALL LINES.—JAPANESE CURIOS.—THIRTY-FOURTH STREET MARKET BUSY.—A PEEP INTO WEIR'S.—CATTLEYAS PLENTY.

Wholesale returns on all kinds of flowers are very low, but no lower than in past years at same season. The cause is overproduction and the lesson is easy to commit to memory for next year if those most interested care to do it. Improvement can scarcely be looked for until after chrysanthemum time has gone and from the growers' point of view it is not at all sure that satisfactory conditions will be reached at all. In the meantime business may be called good as judged from amount of sales and profit on same in retailers' domain. All the stores seem to be doing a fair business for the date and they do not complain, there being evidently no cause. They can buy anything and everything at their own price at present and can also afford to be very fastidious as to quality.

A collection of Japanese floral and arboreal rarities is on exhibition at Bridgeman's. They are fine examples of the peculiar stunting and distorting processes in which the Japanese delight and astonishing prices were paid for them by one of Mr. Bridgeman's patrons.

The Thirty-fourth street flower market has assumed its fall activity and a visit to this busy mart in early morning is well worth the trouble. The frequenters of this place live in a world of their own and it is a busy one.

In these days of plenty John Weir's big Brooklyn store is a flower exhibition in itself. One wonders how he finds sale for such an avalanche every day. Possibly the array of pretty clerks furnishes the explanation.

Harry A. Bunyard has opened a sample room in part of the store at 53 West Twenty-eighth street where he will display a line of florists' requisites and plants.

The Broadway florists' windows are gay with cattleyas, which have never been so plenty or so good before.

Dahlias linger still but they do not pay for cutting and freight.

Chicago.

JUBILEE WEEK SAW A BRACE IN PRICES.—GOOD STOCK IN DEMAND.—KEITH BUILDING SECURED FOR THE SHOW.—TWO NEW RETAIL STORES.—NOTES AND COMMENTS.—MANY VISITORS.

Jubilee week was preceded by two or three cold days and opened with a sharply advancing market. There was no oversupply of flowers and good stock, particularly of roses, was somewhat scarce. Carnations which the week before had gone begging at 50 cents sold readily at $1 and 2 cent flowers were not uncommon. The best fancy stock sold well above that figure. Toward the end of the week the several days of dark weather operated to considerably reduce the cut so that there has been only slight reaction.

American Beauties were of poorer quality than for some time past because of the unpropitious weather, but the blooms sold readily and at good prices. Bride, Bridesmaid, Kaiserin, Perle and Meteor all advanced on a short market, good flowers selling at $5 and $6 a hundred, with poorer qualities ranging down to $2.

Many buyers were surprised at the change in the market but overlooked the fact that the weather restricted the supply while the jubilee increased the demand. Had not the inclemency also operated against social activity, prices would have gone still higher and would have staid up.

The supply of chrysanthemums is rapidly increasing and sharp, frosty weather is in demand to make them sell as of yore.

The Chicago Horticultural Society has at length made a satisfactory lease of the Edson Keith building at the corner of Wabash avenue and Monroe street. It is the best location possible for the show, November 8–12, far better than the old armory, and is a good beginning for a good exhibit.

The Bay State Floral Company, O. W. Frese and Charles Praps, proprietors, opened at 74 State street on Wednesday. The store was not in readiness for the new firm, but they desired to take advantage of the presence of the jubilee crowds and will thoroughly refit and remodel the room at their convenience. Until this opportunity offered Mr. Frese had been with W. E. Lynch.

J. N. Anderson this week opened the most elaborate retail cut flower store in Chicago on Madison street next to the corner of Wabash avenue. Henry C. Rowe, formerly with Schubert & Co., is in charge and has as his assistant Arthur W. Schenk.

This was O. J. Friedman's bad week. He was the jubilee committee's representative in the matter of decorations, and the gale on Monday destroyed six of the triumphal arches upon which Mr. Friedman had put so much time and money.

Some of Bassett & Washburn's best American Beauties found their way to the residence of Lafayette McWilliams where President and Mrs. McKinley have been staying this week.

The first heavy frost of the season occurred on the night of October 14, blackening the foliage and flowers of dahlias, cannas and other similarly tender stock.

J. Austin Shaw, having disposed of all the stock recently put in at 114–116 Wabash avenue by Siebrecht & Son, leaves to-day for Omaha.

Twelve hundred letter carriers participated in Wednesday's big parade, each one wearing a red or pink carnation in his button hole.

Wietor Brothers celebrated jubilee week by bringing in some of the best Jubilee carnations that have grown hereabout.

Eli Hobbs has returned to his Indiana avenue home and business after a summer's visit in England.

The South Park Floral Company is sending two-cent Jubilee, Armazindy and White Cloud to E. C. Amling.

Anton Then is now sending some very well grown chrysanthemums to J. A. Budlong.

E. E. Pieser, of the Kennicott Bros. Co., reports a splendid shipping trade this week.

Mrs. J. B. Deamud and Mrs. J. T. Anthony are each quite ill.

Jubilee visitors were: H. V. Hunkel, of Holton & Hunkel, Milwaukee; Mrs. Ben Moss, Mendota, Ill.; C. C. Pollworth, of Ellis & Pollworth, Milwaukee; F. C. Edwards, Fort Atkinson, Wis.; Samuel Murray, Kansas City; James Hayes, Topeka; Victor Wayman, Madison, Wis.; C. W. Weaver, Bloomsburg, Pa.; Geo. Kranz, Muscatine, Iowa; E. C. Keck, Washington, Iowa; Louis Dreher, Sibley, Ill.; Walter Mott, representing H. A. Dreer; Mrs. W. B. Vander Lip, Elkhart, Ind.; James C. Murray, Peoria, Ill.; Peter Moorscheiser, La Salle, Ill.

Philadelphia.

EARLY PROMISES UNFULFILLED.—EIGHT HUNDRED BEAUTIES IN ONE ORDER.—PRICES LOW.—CHRYSANTHEMUMS ARE PLENTIFUL.—CAMPBELL THE ONLY CUP EXHIBITOR.—VARIOUS ITEMS.

In the early fall the prospects were rosy; there was a scarcity of good flowers and a demand that ofttimes left the market bare, but now it would seem as if it was never to be cleared up again. The growers are doing what they can to hold the stock back, but in spite of all their efforts there is at least twice as much coming in as can be handled at anything like a fair price. S. S. Pennock gave the market a lift last Wednesday, sending 800 best grade Beauties out of town in one lot. Such an order would have exhausted the market completely a few years ago, if indeed it could have been filled from local growers only. Teas are getting better with longer and stiffer stems but one of the commission men says that the growers will be lucky to have their average on teas reach $1.50 or $1.75.

Carnations are also very plentiful, but the quality is not up to the mark and probably not over ten per cent get into the first division. The highest price is $1.50. Double violets are quite plentiful at from 35 to 50 cents per hundred but the quality is only fair. Dumont is receiving some good lily of the valley and will handle the stock of a good grower all winter. Chrysanthemums are getting down to be regular stock and the windows are full of them. Merry Monarch, Yellow Monarch, Lady Fitzwygram, Glory of Pacific, Montmort and Mme. Bergmann are the varieties. The price varies from $1 to $2 per dozen. An order of Geo. Moss for Graham cousumed eight hundred bunches of cosmos and cut out most of the locals.

The meeting of the Pennsylvania Horticultural Society last Tuesday evening brought out quite a few members but not much of interest transpired. There was a lot of fine cosmos on exhibition, which gave the judges quite a lot of trouble, as the best was difficult to select. Dahlias from W. P. Peacock, of Atco, N. J., were very fine. H. A. Dreer exhibited some fine tuberous begonia blooms.

Geo. Campbell was the only exhibitor for the Chrysanthemum Society's sterling silver cup, a little beauty. His flowers, which were very good, were six each of Merry Monarch, Yellow Monarch, Mrs. J. T. Anthony, Lady Fitzwygram, Geo. S. Kalb and Harry A. Parr, a new yellow on the order of Whilldin, not quite so large but earlier. A plant of Acalypha Sanderi exhibited by Mr. Clinkaberry was awarded a certificate of merit. A bloom from the new plant of the pure white cattleya was also shown by him.

Miss E. M. Wood will open her new store, 237 South Fifteenth street, on October 24.

E. Leuly, of West Hoboken, paid us a visit last week.

Robt. Craig & Son have been busy removing the Bogan houses purchased by them last week. It certainly was bargain day for the Messrs. Craig as they obtained $100 worth of pots, seven good sized greenhouses, most of them in fair condition, all for $170, which also included the stock of plants. K.

Boston.

MARKET STAGNANT. — CHRYSANTHEMUMS THE PARTIAL CAUSE.—PRICES LOW.—A GROWING PLANT INDUSTRY.— BEGONIA GLOIRE DE LORRAINE.—RARE ORCHIDS.—VISITORS.

When the October frost strikes us and outdoor flowers are no longer available it is natural that we should look for a quickened demand and increased activity in the florists' trade and when it does not so respond to such conditions it is equally natural that questioning and grumbling should follow. That is "where we are at" just now. Severe frosts have made the gardens desolate and the outdoor product is no longer found in the market. Yet the price of carnations is not much more than half what it was one week ago and roses are piled up in wholesalers hands in a most discouraging fashion. The first answer that suggests itself to a query as to the cause is "chrysanthemums." No doubt the explanation is correct. Chrysanthemums are now with us, but not in the proud way of former seasons for they have already dropped from $20 and $25 a hundred to $5 and $6 a hundred and even at that there is no enthusiasm. The varieties most in evidence are Merry Monarch, Bergmann and Glory of Pacific. Yellows are conspicuous by their absence as yet.

As before mentioned roses are very abundant. They must be good, indeed, to realize regular quotations. American Beauty if extra fine brings $3 a dozen but the sales at this price are limited. As to the balance, Kaiserin brings the best price. Bridesmaids, Brides and Meteors are all in the dumps. Carnations suffer equally, rarely bringing over $1 per hundred. Violets are in the same fix.

It has been often commented upon, of late years, that Boston, with her recognized horticultural prominence in many lines, yet has been obliged to depend upon distant sources of supply for the palms, ferns and general decorative material that the business now-a-days demands. The first systematic attempt to fill this long felt want is being made by Wm. Edgar, at Waverly, where the houses once devoted to cut flower stock are now almost entirely turned over to plant production and if the present rate of progress is kept up a local supply house of considerable magnitude is assured. The most interesting and unique thing to be seen here now is that finest of all winter flowering plants, Begonia Gloire de Lorraine. For one who knows a good thing when he sees it, a view of these plants is well worth a trip of many miles. Either as a hanging plant or table decoration, alone or associated with small ferns, it is simply perfect and the tiniest plants are full of bloom. Mr. Edgar gets a good place for small ferns underneath the board benches by coating the benches with about a quarter inch of cement, thus making them perfectly tight and preventing all drip. A fern which he is growing extensively for cutting is Adiantum tenerum, which may be described as a giant cuneatum, the fronds of which are excellent for large work such as combinations with American Beauties or chrysanthemums.

There were two rarities on exhibition at Horticultural Hall on Saturday, Oct. 15, both from C. G. Roebling. One was a pure white Dendrobium Phalænopsis, the only one in America, and the other was the white Cattleya labiata which bloomed recently among a lot imported by Julius Roehrs, also said to be unique. R. & J. Farquhar showed a new salvia, deep blue in color, flowers very large and showy. W. C. Winter staged an extensive collection of named dahlias.

Visitors in town: S. Hamburger, Philadelphia, Pa., Wm. Appleton, George Johnson, Alex. Rennie, Providence, R. I.

W. A. Twombly is sick with typhoid fever.

Cleveland.

BUSINESS SHOWS A SLIGHT IMPROVEMENT. —WINTER FLOWERS IN SUPPLY.—EARLY CHRYSANTHEMUMS LATE. — SMITH & FETTERS' OPENING.—NOTES.

Business is improving slightly although the general trade is continuing about as previous reports have indicated. There will probably not be any very noticeable betterment in this branch of the business until we get a frost to kill off the outside flowers which have been offered rather freely of late. The frost can hardly arrive too soon as chrysanthemums, carnations and roses are in supply now.

Chrysanthemums are increasing in number and improving in quality every day. The early sorts are quite a good deal later than last year. Bergmann, Glory of Pacific, and Marquis de Montmort are the principal offerings, with some few Marion Henderson for yellow. These are retailing at about $3 a dozen, varying from that figure according to quality. One grower, in speaking of seasons, claims a lateness of three weeks in the earliest sorts, while another lot that came under the writer's eye, shows little if any difference in respect to comparative earliness. Various other reports are between these extremes.

We have been having a great deal of cloudy, rainy and generally disagreeable weather of late and many roses are showing the effects in the form of more or less mildew.

Smith & Fetters gave an autumn opening and special display of mantel and table decorations at 148 Euclid avenue, October 20 and 21 to which a large number of artistic invitations were sent out.

J. Austin Shaw, of Siebrecht & Son, and Walter Mott, of Henry A. Dreer, have been in town during the last few days.

A.

Pittsburg.

CONCLAVE WEEK TRADE DISAPPOINTED CUT FLOWER MEN.—MANY PLANT DECORATIONS.—MRS. WILLIAMS' GOOD WORK. —A BUSINESS CHANGE.—BOTANICAL SOCIETY ELECTS OFFICERS.—OTHER HAPPENINGS.

The Triennial Knights Templar conclave held here last week did not prove nearly as great a business maker for the florists in the cut flower branch as many anticipated, the demand being mainly for foliage decorations which called into requisition all the stock of palms and foliage plants of the two cities. A conservative estimate of the total cost of these numerous decorations would be $10,000. For cut flowers the demand was very light indeed, the supply far exceeding it.

Mrs. E. A. Williams' decoration of the headquarters of Pittsburg Commandery No. 1, was the most elaborate and finest of the floral decorations, walls and ceilings being completely covered with wild smilax, asparagus and laurel. Palms, ferns, roses and other flowers were also used to a considerable extent. Mrs. Williams, when bidding on this work, submitted a color sketch by an artist showing how the rooms would look, and surpassed the sketch in the actual work. The commandery kept open house all week and the thousands of visitors were loud in their praise of the decorations.

Chrysanthemums are coming in very freely now but are not bringing as good prices as in former years. They are selling wholesale at from 60 cents to $1.50 per dozen, with not at all brisk demand.

J. F. Gibbs & Son have resumed charge of their place on Fifth avenue, E. E., recently sold to Mr. Poland, who retires. They will continue the stand in Allegheny Market and the greenhouses at Woodville, Pa.

At the last meeting of the Western Pennsylvania Botanical Society officers were elected as follows: President, Henry H. Negley; vice-president, T. S. Brown; treasurer, James Horner; recording secretary, T. W. McConnell; corresponding secretary, John A. Shafer; trustees and executive committee, Prof. B. H. Patterson, Wm. Falconer, James J. Booth and Dr. T. D. Davis. The society is increasing in membership and the committee will soon announce a programme for the winter's monthly meetings.

John Murchie & Son, of Sharon, are visitors this week.

REGIA.

Baltimore.

CHRYSANTHEMUMS SCARCE BUT IN DEMAND. —MR. COOK'S NEW ROSE.—W. P. BINDER EXHIBITS WILLOWBROOK.—NOTES.

Cold, blustering weather has made firing a necessity this week. Business has been rather slow. Chrysanthemums are the only scarce article in demand. Plenty of early whites are to be had, though yellows are still a novelty and Glory of Pacific is the only pink seen in our stores. Carnations are in better condition, but violets are yet too poor to be in great demand. Roses of all kinds are plentiful.

Jno. Cook's latest rose seedling success is a shell pink, much on the shade of Carnot. Short bud and very double bloom, with stem and foliage almost equal in strength to Beauty. As yet it is unnamed, although soon to be on the market.

W. Paul Binder has on exhibition at several of our stores his new seedling chrysanthemum Willowbrook, a Japanese, pure white, and an early bloomer. The writer is glad to report Mr. Binder in much better health and able to be about once more.

Isaac H. Moss, of Govanstown, has just completed two large carnation houses, each 200 feet in length.

S. S. Pennock, of Philadelphia, was in our city last week and in company with Wm. Feast visited Washington.

W. J. Halliday has returned from a pleasant visit to Pittsburg with the Knights Templar.

A. R. J.

ELGIN, ILL.—Mr. Geo. Souster has leased the greenhouses of H. Schlaack and will use them to grow cut flowers.

ALBANY, N. Y.—The contents of the greenhouses belonging to the estate of Thos. W. Davidson were sold at auction on October 3. The stock of decorative plants and orchids was large, the former bringing good prices but the latter moving with such difficulty that most of them were left for private sale.

BROCKTON, MASS.—The floral display at the Brockton Fair was very large this year, but was not considered fully up to that of past seasons as to quality. The outdoor displays were very extensive and very fine but of the choicer indoor flowers the entries were not as numerous as in the past. It is expected that more liberal premiums will be offered in the latter department next year. Dahlias from H. F. Bird and Lothrop & Higgins were exceedingly fine

THE AMERICAN FLORIST

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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

W. A. McFADDEN, of Cincinnati, reports a first-class trade in orchid blooms.

T. T. LYON is about to retire from the directorship of the Lansing, Mich., Experiment Station. He is 85 years of age.

FLOWER spikes of Gloire de Lorraine begonia laid loosely on and among Asparagus Sprengerii make a lovely table decoration.

ONE of our correspondents would like to hear from any reader of the AMERICAN FLORIST who has had experience in growing Ficus elastica from seed.

MR. VESEY, of the Florists' Mutual Fire Insurance Association, states that the outlook for this institution is now decidedly brighter in every respect.

A CUSTOMER (it was a lady, of course!) called on a florist recently for a "gum-shoe plant," and after considerable inquiry it was discovered that she meant a rubber plant, otherwise, Ficus elastica. Of course she was all right!

THERE is, we find, an increased demand for pot plants of all kinds. It may be that this condition has been brought about by the short crop and high price of bulbs; but, whatever the cause, the prospect is encouraging to the plantsman.

ONE of the most graceful of orchids for cut flower work is Dendrobium Phalænopsis and its price brings it within the reach of the everyday florist. Some one having suggested recently that, although long lived on the plant, this flower is not a good keeper, an expert advises that the spikes should be cut toward evening and thrown into a tank of cold water to remain there till morning, after which they may be kept in good condition for a long time.

BUNCHING violets for market is an item on which it pays to take trouble. Good flowers frequently fail of a good sale through unskillful bunching. Two methods are in use—one with the flowers all of uniform height and the other with the flowers of varying heights in the bunch, but in either case each individual bloom must show for its full value and an abundant edging of good hard violet leaves should surround each bunch. Rose geranium leaves are hardly appropriate and suggest that the violets are lacking in fragrance. We recently saw a bunch of fifty violets untied; when entirely unwound the string measured over ten feet! The grower who put them up must have been a rich find for the twine man.

THE final premium list for the twelfth annual Floral Festival to be given by the State Florists' Association of Indiana at Indianapolis, November 8 to 12, has just been issued and lists seventy-seven classes for which $1593.50 is offered in premiums. Chrysanthemums will be the leading feature of the show, but the largest premiums, $50, $35 and $20, are offered in class 58, a special display of not less than 300 nor more than 400 cut roses. J. D. Carmody, of Evansville, is president of the society and R. A. McKeand, Indianapolis, secretary. Theodore Bock, Hamilton, Ohio, has been chosen to judge the exhibits.

Greenhouse Building.

Greenfield Hill, Ct.—S. P. Beers, house 12x50.

Rockland, Mass.—W. B. Arnold, house 12x60.

Doylestown, Pa.—National Farm School, house 20x100.

So. Walpole, Mass.—Mrs. Nangle, one commercial house.

Wolfboro, N. H.—Geo. P. Gridley, house 27x60.

Denison, Iowa.—Mrs. John Tamm, conservatory 16x26.

West Mentor, O.—Carl Hagenburger, violet house 8x110.

Govanstown, Md.—I. H. Moss, two carnation houses.

Bloomsburg, Pa.—J. L. Dillon, carnation house 22x300.

Catalogues and Cut Flower Price Lists Received.

Old Colony Nurseries, Plymouth, Mass., trees and shrubs, plants; Vaughan, McKellar & Winterson, Chicago, Ill., cemetery vases, cut flowers; Gustav Ludwig, Allegheny, Pa., bulbs and holly; Benjamin Hammond, Fishkill-on-Hudson, N. Y., slug shot and paints; P. Ouwerkirk, Jersey City, N. J., plants; Storrs & Harrison Co., Painesville, Ohio, bulbs and seeds; W. Atlee Burpee & Co., Philadelphia, Pa., seeds; The Cassel Nursery Co., North Clayton, Ohio, fruit trees; Chas. B. Hornor & Son, Mt. Holly, N. J., trees and shrubs; M. Rice & Co., Philadelphia, Pa., florists' requisites; Wm. F. Kasting, Buffalo, N. Y., cut flowers; W. A. McFadden, Cincinnati, Ohio, cut flowers; Cincinnati Cut Flower Co., Cincinnati, Ohio, cut flowers; Ellis & Pollworth, Milwaukee, Wis., cut flowers; O. Vanden Plas, Loochristi ur. Ghent, Belgium, azaleas; Gustav A. Schultz, Lichtenberg, Berlin, lily of the valley; The Steele, Briggs Seed Co., Toronto, Canada, bulbs and seeds; George Egger, Jaffa, Palestine, bulbs; V. Lemoine & Son, Nany, France, plants; Uberto Hillebrand, Pallanza, Italy, seeds and bulbs; Ketten Brothers, Luxemburg, (Grand Duchy), roses; P. Lambert, Trier, Germany, roses: Bunting & Sons, Colchester, England, bulbs.

Burnt Turf.

ED. AM. FLORIST:—This is mentioned in some recent numbers and I would much like to have further particulars as to its preparation. How deep should the soil be taken to be used for burnt turf? Should the soil remain outdoors over winter? What do you consider would be a fair price per carload? M. C. B.

Take up the soil a trifle below the roots that penetrate it; this will be found to vary some but it is a valuable guide as the existence of roots proves its ability to sustain plant life. Some places where soil is irrigated and sweet, roots run quite deep; other places they are shallow. It is best over a clay sub-soil, where the intermediate substance between the pure clay and loam is a gray color; an inch or more of that is very good. More clay can be incorporated in burnt soil with benefit than in the usual method of preparing soil. It is not at all necessary to remain over winter. As soon as the fire and heat are out it is ready for use. I think it would sell fast at $30 a car and pay.

C. B. W.

Violets at Poughkeepsie.

Our great and somewhat versatile friend, Mr. William Scott, does the undersigned the honor to question, in the columns of a contemporary, the facts of the methods of violet culture at Poughkeepsie, as described by the undersigned in a recent number of the AMERICAN FLORIST. Mr. Scott is hereby informed that it was not "near the Fourth of July" when deponent "found the glass covered with a thick coat of whitewash," but on September 26, 1898. The writer further rises to assure his esteemed critic that he did not "forget that many of the (Poughkeepsie) growers remove the sash or glass entirely during the months of June, July and August" for they do nothing of the kind. Guess again, Brother Scott. WM. J. STEWART.

Coming Exhibitions.

[*Secretaries are requested to supply any omissions from this list.*]

BOSTON, Nov. 8-11. Chrysanthemum show, Massachusetts Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

BROCKTON, MASS., Nov. 16-18. Chrysanthemum show, Florists' and Gardeners' Club. Walter E. Baker, Sec'y.

BUFFALO, N. Y., Nov. 9-11.—Chrysanthemum show, Buffalo Florists' Club. Wm. Legg, Sec'y, 1440 Delaware Ave.

CHICAGO, Nov. 8-12. Chrysanthemum show, Hort. Society of Chicago. Willis N. Rudd, Ass't Sec'y, Room 202, 185 Dearborn St.

ELMIRA, N. Y., Nov. 1-2. Chrysanthemum show, Elmira Hort. Society. R. R. Stockdale, Sec'y.

EVANSVILLE, IND., Nov. 8-12. Chrysanthemum show, Evansville Press Club.

GERMANTOWN, PA., Nov. 7. Autumn exhibition, Germantown Hort. Society.

HARTFORD, CONN., Nov. 8-10. Chrysanthemum show, Connecticut Hort. Society. C. M. Rodgers, Sec'y, Beacon St., Hartford.

INDIANAPOLIS, Nov. 8-12. Chrysanthemum show, State Florists' Association of Indiana. R. A. McKeand, Sec'y, Garfield Park, Indianapolis, Ind.

MILLBROOK, N. Y., Nov. 10-12. Chrysanthemum show. Millbrook Hort. Society. J. O. Pingry, Sec'y.

MORRISTOWN, N. J., Nov. 1-2. Annual Exhibition, Morris County Gardeners' and Florists' Society. C. H. Atkins, Sec'y, Madison, N. J.

NEW BEDFORD, MASS., Nov. 3-5. Annual exhibition New Bedford Gardeners' and Florists' Club. Peter Murray, Sec'y, Box 104 Fairhaven, Mass.

NEWPORT, R. I., Nov. 2-4. Chrysanthemum show, Newport Hort. Society. J. J. Butler, Sec'y, P. O. Box 213.

PHILADELPHIA, Nov. 8-12. Annual exhibition, Pennsylvania Hort. Society, David Rust, Sec'y, Horticultural Hall, Broad St. below Locust.

POUGHKEEPSIE, N. Y., Nov. 2-4. Chrysanthemum show, Duchess County Hort. Society. Arthur A. Loughren, Sec'y.

PROVIDENCE, R. I., Nov. 9-11. Chrysanthemum show, Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St., room 23.

ST. LOUIS, Nov. 8-12. Chrysanthemum show, St. Louis Florists' Club. Emil Schray, Sec'y, 4101 Pennsylvania Ave.

SYRACUSE, N. Y., Nov. 15-17. Chrysanthemum show, Central New York Hort. Society. D. Campbell, Sec'y.

TORONTO, Nov. 9-12. Chrysanthemum show, Toronto Gardeners' and Florists' Association. E. H. Carter, Sec'y, Riverside Park, Toronto.

WACO, TEXAS, Nov. 10-12. Chrysanthemum show, Texas State Floral Society. Mrs. Louis Crow, Sec'y, Waco, Texas.

WORCESTER, MASS., Nov. 8-9. Chrysanthemum show, Worcester County Hort. Society. Adin A. Hixon, Sec'y, Horticultural Hall, 18 Front St.

Return Pipes.

ED. AM. FLORIST:—In cases where several return pipes are employed underneath the benches, I wish to know whether they will enter the main re-return together with as good results as where each minor return enters the main direct and separate, the latter being one or two sizes larger? R. D. B.

Ordinarily it will make but little differ-

ence, so far as the circulation goes, whether the return pipes are united before entering the main return or not, although if the distance to the main return is great there will be less friction if the returns are brought together into one pipe. So far as the labor and cost of material for putting in the piping are concerned, it will be cheaper to unite the returns, and as a rule it will make a better looking job and will make the labor of repairing or changing the system less, should this ever be necessary. The size or capacity of the pipe used to connect the coils with the main returns should be the same as that of the pipe or pipes that run from the main flow pipe to the coils.

L. R. TAFT.

Boiler Power.

ED. AM. FLORIST:—I would be pleased to learn through your paper how to ascertain the heating power of a tubular boiler, and also if there is anything lost by the use of a boiler that is twice as large as necessary? H. T. C.

The heating power of a boiler depends upon the area of its grate and fire surfaces. As a rule, boilers of medium size are rated at one horse-power for each fifteen feet, while in the larger ones only twelve feet of fire surface are allowed, estimating the area of the tubes and other parts of the boiler exposed to the fire. The area of the grate required for a horse-power will depend even more upon the size of the boiler and its relative area must be greater in small boilers. Under ten horse-power there should be about three-fourths of a square foot of grate surface for each horse-power, but for the larger sizes one-half of one square foot will be ample. The size of the grate should also be modified according to the attention the fires are likely to have, as where there is a regular fireman, night and day, a much smaller grate and fire surface will suffice than when the fires are left for a number of hours. In determining the size of a steam boiler that is required for heating a greenhouse, or in fact any other structure, it is customary to estimate that one horse-power will suffice for 100 square feet of radiating surface.

Ordinarily the use of a boiler twenty-five per cent larger than will be required, results in economy of fuel, if it is properly handled, but, when the boiler is twice as large as required, it will necessitate very careful stoking to keep down the fuel consumption. This, however, can be in a measure controlled by the use of a grate of the size that would be required. If the grate can not readily be changed, the fire area can be reduced by covering a part of the grate with fire brick. L. R. TAFT.

Milwaukee.

STOCK AND TRADE CONDITIONS.—JOTTINGS PERSONAL AND OTHERWISE.

Flowers are becoming quite scarce but they are of good quality and prices are stiffening, particularly of carnations. Chrysanthemums are coming in plentifully and violets are very good. Trade is excellent.

Alex. Klokner has improved his store by repainting and putting in new fixtures.

Volk & Stewart's new corner is very handsome.

Miss Ryan has again taken the reins at the flower department at Fox's.

Walter Mott, of Philadelphia, was in town recently and spoke of the eastern florists' talk of conducting the convention of the S. A. F. for 1900 on an ocean steamer bound for the Paris Exposition. It was the first we have heard of it out here.

The Civil Service Commission is conducting examinations of applicants for the position of Superintendent of Conservatories of Mitchell Park, a $20,000 structure. The superintendent's salary is $60 per month and he must have lived in Milwaukee for three years.

Currie Brothers are advertising special sales daily and are open until eight o'clock each evening. C. B. W.

GREENBUSH, WIS.—Frank Ovenden has gone to Milwaukee to clerk in a florists' store.

LOWELL, MASS.—C. F. Miles, formerly with Jno. Oliver, has opened a retail store.

SHEBOYGAN, WIS.—J. E. Matthewson now has as clerks Misses Ella and Hulda Myer.

BRATTLEBORO, VT.—D. McGillivray is rejoicing over the arrival of a new daughter.

YPSILANTI, MICH.—Charles Krzysske was called to Waltz, Mich., recently by the death of his father.

POTTSVILLE, PA.—Carl E. Taube has taken charge of the Park Nurseries and will manage them hereafter.

NORTH TURNER, ME.—G. T. Browne is closing out his greenhouse stock and will spend the winter in the south.

COUNCIL BLUFFS, IA.—J. T. Temple, the Davenport, Iowa, florist was installed as Grand Patriarch of the I. O. O. F. of the state. The ceremony was performed here October 14.

SPRINGFIELD, MASS.—The Hampden Horticultural Society has decided to have no chrysanthemum show this year. Reason, lack of support last year, whereby a loss of over $200 was sustained.

DORRANCETON, PA.—Benj. Dorrance is engaged in preparations for some twenty new rose houses, which are to be built for next year's planting. This will add about 100,000 square feet of glass to his present area.

HOLYOKE, MASS.—The Holyoke Horticultural Society has elected Geo. A. Sinclair as secretary to fill the unexpired term of the late C. M. Hartzell. At the meeting of November 4, it is expected that Matthew Alexander will address the society on chrysanthemums.

BEATRICE, NEB.—S. H. Dole & Son have this summer taken down all their houses and rebuilt them upon land where they obtain a better level for their heating plant. They have put up two houses each 20x100, two each 10x100, with a potting shed and work room 8x63 and a boiler room. They anticipate an excellent business in the next year.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By experienced palm and fern grower; single. Good references. A. E DESERABLE, Glenside, Montg Co., Pa.

SITUATION WANTED—By experienced florist; fine roses, carnations, 'mums, violets; plantsman. Best references. FLORIST, P. O. Box 547, Alliance, O.

SITUATION WANTED—By a competent storeman. Best refs.; good salesman, cut flower and wire worker. T. W. HARDESTY. College Bl'd, Cincinnati, O.

SITUATION WANTED—By young man, age 27, as assistant; have had several years' experience in general greenhouse work; sober and reliable References. Address W B. care Am Florist.

SITUATION WANTED—By young married man, 27 years old in rose growing establishment; has had four years' experience. Can furnish references. Address C J P, 21 Raddins Ct., Lynn, Mass.

SITUATION WANTED—By a young man with 7 years' experience growing roses, violets and carnations for Chicago market. Best references. Address ALBERT STITZ, care Klehm's Nurseries, Arlington Heights, Ill.

SITUATION WANTED—By a German expert gardener, 2 years in this country. Permanent position at reasonable wages Married; especially familiar with greenhouse and nursery work. Address P. REITH, Glard, Clayton Co., Ia.

SITUATION WANTED—As foreman on commercial place, retail or wholesale, cut flowers or plants by first-class grower Can give first-class references. Do not drink or use tobacco Only first-class place wanted. Address R E L, care Am. Florist.

WANTED—Married man for general greenhouse work. JACOB MEYER, Morton Grove, Ill.

WANTED—Single man to take care of section of rose houses. Call at 51 Wabash Ave., Chicago.

WANTED—An offer to buy or lease six greenhouses; a fine chance for a practical florist 4, 11, 44, care American Florist.

WANTED—At once an offer to buy or lease a greenhouse establishment. A fine chance for a hustler. 1 E K, care American Florist.

WANTED—A competent gardener for a private estate, to care for flowers greenhouses, etc.; wages $25 a month and board. Address with references P. P. VAN VLEET, 320-324 Main St, Memphis, Tenn.

FOR SALE—At a bargain, greenhouse property in Greater New York, opposite three cemeteries. Little cash needed Particulars M care Am Florist.

FOR SALE CHEAP—Three greenhouses, four lots and stock in the best and liveliest city in America, unincumbered. Apply 558 South 1st St., Cripple Creek, Colo.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health A CLAUS 501 N. 4th St, Springfield, Ill.

FOR RENT—Two greenhouses, about 5000 feet glass, a good retail stand in city of Asheville, N. C.; also dwelling house if desired. Fine opportunity for a good tenant. Address REV. H M. PARKER, James Island, S. C.

FOR SALE—One No 17 Hitchings greenhouse hot water boiler, second-hand, price $60. One No 24 Tobacco hot water boiler, used only four months, price $38. Address GEORGE M WITWER, South Bend, Ind.

FOR SALE—A splendid opportunity to purchase a well established business of 10,000 sq. ft. of glass, well stocked and in good condition. In center of city of 18,000 population. Must be sold soon and will not rent. Will sell at a sacrifice. Address BUSINESS, care American Florist.

FOR SALE—On account of age and poor health, three greenhouses, each 20x165, two filled with Beauty, Bride, Bride-maid and Perles, planted in July, and in excellent condition; the other is filled with carnations and chrysanthemums, also fine; one frame 6x75 of pansies; one 6x140 of Marie Louise violets; 350 azaleas in 6 and 8-inch pots; one large lotus pond, filled; 10 others; one never failing well of water; good boiler pump and tank; good houses; three acres good land; good stable and wagon shed. The best place around Harrisburg or in the county. For terms, address T. J. WINTERS, 943 North 7th St., Long Distance 'Phone 2454. Harrisburg, Pa.

FOR SALE.

A 20-year business, a 20-foot front, 3-story brick house of 10 rooms and cellar stable 30x50 feet with greenhouse same size on top of stable. Situated on Baltimore street, 7 squares from city hall, in the city of Baltimore. In fee, $10,000—$5,000 cash, balance long or short time Owner wishes to stop store keeping. Can show receipts for the whole time

GEO. V. SMITH, 1101 E. Baltimore St., Baltimore, Md.

FOR SALE.

A florist establishment for sale consisting of 13,000 square feet of glass, in good condition. Heated by steam; in the city limits, located in a city of 18,000 inhabitants on the Mississippi river in Iowa, with several acres of land and dwelling house. Must sell soon on account of old age. For further particulars address

IOWA, care American Florist.

FOR SALE.

Greenhouse business in Illinois city of 15,000 population, 120 miles from Chicago; practically no competition. Reason for selling, poor health. Address.

W H G. care American Florist.

If you write to any advertiser anywhere mention the paper in which you saw the ad. Both publisher and advertiser will like you better for it.

A NEW PLACE TO BUY YOUR WIRE WORK

Finding it necessary to go into the manufacture of wire work on account of the numerous calls for same, I take pleasure in announcing that it is my aim to make this new departure a success. To do this I have reduced prices wherever possible, and will cheerfully prove to the trade that my prices and workmanship cannot be duplicated any where. As a special inducement to introduce my work I will give a special discount on all orders sent to me by November 10, 1898.

On Orders of $50.00 30 per cent. off.
On Orders of 25.00 25 " "
On Orders of 10.00 20 " "
On Orders of 5.00 15 " "

Write for my price list. Just out.

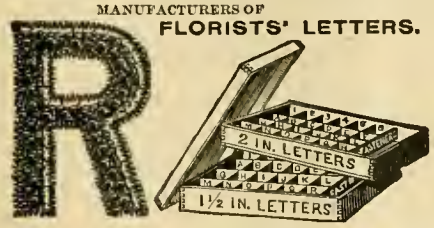
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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $4.00.
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Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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84 Hawley St., BOSTON, MASS.

HARDY CUT FERNS

WRITE FOR PRICES.



L. B. BRAGUE,

Oldest, largest and most reliable dealer in the U. S. Hinsdale, Mass.

C. W. WORS

2740 Olive Street, ST. LOUIS, MO.

FLOWERS at WHOLESALE....

.....ROSES, and a full line.

Headquarters for the South West.....

...LOUISVILLE...

Florists' Supply and Exchange

Wholesale Florists and dealers in Florists' Supplies

Special facilities for shipping south. Unequalled returns for good stock. Open night and day.

520 W. Jefferson St., - LOUISVILLE, KY.

ELLISON & TESSON,

Wholesale Shipping

FflorISTS

3134 Olive Street, ST. LOUIS, MO.

HOME GROWN STOCK.

BRILLIANT GREEN AND BRONZE

GALAX LEAVES,

For Decorating and all Florists' Designs.

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

Pittsburg Cut Flower Co. Limited

705 Penn Avenue, PITTSBURG, PA.

CHRYSANTHEMUMS.
LILY OF THE VALLEY.
CARNATIONS.
ROSES.
} Extra Fancy Stock.

Wholesale Florists.

Mention American Florist.

Wholesale Flower Markets

CINCINNATI, Oct. 20.

Roses, Beauties, select	15 00@20 00
" " medium	10 00@12 50
" Brides	3 00@ 4.00
" Bridesmaids	2 00@ 4 00
" Meteors	3 00@ 4.00
" Perles	2.00@ 3 00
Carnations	1 00@1 50
Lily of the valley	4 00
Smilax	12.50@15.00
Adiantum	1 00
Asparagus	50.00
Common ferns	15
Chrysanthemums	12.50@15 00

ST. LOUIS, Oct. 20.

Roses, Beauties	3 00@15 00
" Meteors	2.00@ 4 00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	1.00@ 3.00
" Kaiserins	2.00@ 5.00
Carnations	1.00@ 2 00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00

MILWAUKEE, Oct. 20.

Roses, Beauties, long, per doz.	1.50@2 00
" " medium " "	1 00@1 25
" " short " "	75@1 00
" Brides, Bridesmaids	3 00@ 4.00
" Perles	3 00@ 4.00
" Meteors, Kaserins	3.00@ 5 00
Carnations	.75@ 2.00
Gladioli	2.00@ 3.00
Smilax	12 50
Adiantum	.75
Common ferns	.10
Asparagus	50.00

BUFFALO, Oct. 20.

Roses, Beauties	5.00@20 00
" Brides, Bridesmaids	2 00@ 6.00
" Meteors	2.00@ 6.00
" Perles Niphetos	2.00@ 4 00
" Kaiserins	3.00@ 6.00
Carnations, ordinary	.50@ 1.00
" fancies	1.00@ 2.00
Lily of the valley	4 00@ 5.00
Smilax	10 00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	20
Violets	.50@ 1 00
Chrysanthemums	10.00@20.00

LOUISVILLE, Oct. 20.

Roses, Beauties per dozen	.75@2.00
" Brides, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" Kaiserins	2.00@ 4 00
" Perles	1.50@ 2.00
Carnations, fancy	1.25@ 1.50
" common	1.00
Violets	.50@ .75
Smilax, per dozen	1.25@ 2.00
Adiantum	.75@ 1.00
Asparagus, per string	.50
Dagger ferns per M.	$1.00
Fancy " "	1.50

Asparagus Plumosus Nanus.

Strings 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

GIVE US A TRIAL. WE CAN PLEASE YOU.

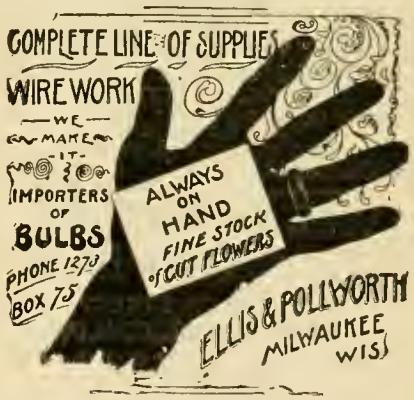


ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

WM. F. KASTING WHOLESALE COMMISSION FLORIST....

495 Washington St., Buffalo, N. Y.

Also Dealer in Florists' Supplies and Wire Designs



GEO. A. KUHL,

Wholesale Cut Flowers

ROSES AND CARNATIONS.

GEO. A. KUHL, - Pekin, Ill.

Orders should be placed NOW for Kelsey's Southern

Galax Leaves

BRILLIANT GREEN and BRONZE.

Green are ready. Bronze about last of October. Information free, of leading wholesalers or the introducer. HARLAN P. KELSEY,
1150 Tremont Bldg., Boston, Mass.
Proprietor Highlands Nursery, in North Carolina.

If you've surplus stock we can tell you how to sell it.

ILLINOIS CUT FLOWER CO.

J. B. DEAMUD

51-53 WABASH AVE.
CHICAGO

—o—

	Per doz.
CHRYSANTHEMUMS	75c to $1.50
" Fancy	$2.00 to 3.00

We control the crops of Chicago's best Chrysanthemum growers.

PRICE LIST Per 100

Brides, Bridesmaids, Meteors	$2 to $4.00
Perles	2 to 3.00
Kaiserin	3 to 5.00
Carnations	1.00
Carnations, fancy	2.00
Valley	4 to 5.00
Tuberose Spikes	5.00
Asparagus, per string, 50c	
Smilax	10 to 12.50
Violets	60c to 75c
Common Ferns, per 1000,	1.50 .20c
Adiantum	75c to 1.00

V. M. & W.

Wholesale Florists

47 Wabash Avenue, CHICAGO.

E. C. AMLING

Wholesale Cut Flowers

51 Wabash Avenue,

W. S. HEFFRON, Mgr. CHICAGO.

Wholesale Flower Markets

CHICAGO, Oct. 21.

Roses, Beauties, extra long, per doz.		3.00
" " 24 inch	"	2.00
" " 20 "	"	1 50
" " 15 "	"	1.00
" " 10 "	"	.75
" " 6 "	"	.50
" Brides		2.00@ 3.00
" Kaiserins		2.00@ 4.00
" Bridesmaids		2.00@ 3.00
" Perles		2.00@ 3.00
" Meteors		2.00@ 4.00
Carnations		.75@ 1.00
" fancy		1.50@ 2.00
Lily of the valley		4.00
Adiantum		.50@ 1.00
Common ferns		.20
Smilax		10.00@12.00
Asparagus		40.00@50.00
Violets		1.00@ 1.25
Chrysanthemums		8.00@25.00

Reinberg Bros.

Wholesale Growers of **CUT FLOWERS**

600,000 FEET OF GLASS!

We can fill all orders on short notice with all leading varieties of Roses and Carnations.
We ARE Headquarters for Fine AMERICAN BEAUTIES. Give us a trial and convince yourself.

51 Wabash Avenue, CHICAGO.

A. G. PRINCE & CO.

Wholesale Cut Flowers

AND FLORISTS' SUPPLIES.

Agents for the Hinsdale Rose Co. Special attention paid to shipping orders.

88 & 90 Wabash Avenue,
Telephone Main 3208. CHICAGO.

WM. C. SMITH,

Wholesale Florist,

1604 LUDLOW STREET,
PHILADELPHIA.

Consignments Solicited. Special attention given to shipping orders

Geo. M. Moss,

WHOLESALE FLORIST,

30 South 17th Street, PHILADELPHIA, PA.

Long Distance 'Phone 1-41-26 D.

Consignments of Roses, Carnations, Violets solicited

EDWARD REID,

Wholesale Florist,

1526 RANSTEAD STREET,

Long Distance 'Phone. PHILADELPHIA.

"Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

Lynch

WHOLESALE FLORIST.

19-21 E. RANDOLPH ST. CHICAGO

WHOLESALE GROWER OF ROSES. DEALER IN CUT FLOWERS.

J. A. BUDLONG,

37-39 Randolph Street. CHICAGO, ILL.

S. B. WINTER,

(Successor to WINTER & GLOVER,)

21 Randolph St., Chicago.

HIGH GRADE **CUT FLOWERS,**

PACKED RIGHT,

so they will reach you in just as good condition as they reach us.

WIRE DESIGNS: A Full Line. Write us for our Illustrated Catalogue.

Dumont & Co.

WHOLESALE FLORISTS.

Carnations a Specialty

1305 Filbert Street, PHILADELPHIA.

TELEPHONE 3922 D.

WIETOR BROS.

SUCCESSORS TO
ROGERS PARK FLORAL CO.

Wholesale Growers of **CUT FLOWERS**

51 WABASH AVENUE,

Headquarters For American Beauties. CHICAGO

KENNICOTT BROS. CO.

WHOLESALE CUT FLOWERS AND FLORISTS SUPPLIES.

WIRE WORK A SPECIALTY. 88 WABASH AVE. CHICAGO.

Mention the American Florist.

Bassett & Washburn

88 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

A. L. RANDALL

Wholesale Florist

Don't Forget that we are at 4 Washington St., Chicago.

Write for special quotations on large orders.

GALVIN & CO.

Wholesale Florists

AND DEALERS IN ALL
FLORISTS' SUPPLIES,

4 Ordway Place, BOSTON, MASS.

Cut Flower Consignments Solicited. Best market.

N. Y. CUT FLOWER EXCHANGE

404-412 E. 34th St. Near Ferry.
Open for Cut Flower Sales at 6 o'clock Every Morning.....

DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.

JOHN DONALDSON, Secretary.

C. A. KUEHN,

Wholesale Florist,

1122 PINE STREET,

ST. LOUIS, MO.

A complete line of Wire Designs.

ST. LOUIS CUT FLOWER CO.

Wholesale Florists

E. H. MICHEL

1620 Olive St.
ST. LOUIS, MO.

CINCINNATI CUT FLOWER CO.

SUCCESSORS TO
H. L. SUNDERBRUCH CO.

Wholesale Commission Florists

4th and Walnut Sts., CINCINNATI, OHIO.

Consignments Solicited. Special Attention Given to Shipping Orders.

MacDonald & McManus

... SUPPLY ... ORCHIDS EVERY DAY

ONLY HOUSE IN NEW YORK HANDLING
EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

TELEPHONE 2778 38TH STREET.

50 West 30th Street, NEW YORK CITY.

DECKER, BLAUVELT CO.

Wholesale Florists,

42 West 28th Street, NEW YORK.

Consignments solicited. Shipping Orders will receive prompt and careful attention.

M. A. HART,

Commission DEALER IN Cut Flowers,

44 WEST 29TH STREET,
NEW YORK CITY.
THE BEST MARKET IN NEW YORK.
'Phone 1307 38th St.

JOHN YOUNG,

ROSES, CARNATIONS, VALLEY

and all other choice cut flower stock.

51 W. 28th Street, NEW YORK.

Price list on application.

THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,
112 and 114 West 24th Street,

Telephone 733—18th. NEW YORK.

CONSIGNMENTS SOLICITED.
Special Attention Given to Shipping Orders.
Mention American Florist.

Choice Carnations Choice Roses

Traendly & Schenck

NEW YORK CITY

38 W. 28th Street Cut Flower Exchange

Ford Bros...

Wholesale Florists

111 West 30th Street, NEW YORK.
Consignments Solicited. Telephone, 260 38th St.

Now They're Cheap!!

FLOWERS, ALL KINDS
PLENTY OF THEM AT

J. K. ALLEN'S 57 WEST 28th STREET, NEW YORK.

TELEPHONE 382 38th St.

Have you seen our 1898 Directory? It lists every florist in North America.

Wholesale Flower Markets

NEW YORK, Oct. 19.

Roses, Beauties	5.00@20.00
" Bridesmaids, Brides	1.00@ 3.00
" Morgans Perles	1.00@2.00
" Niphetos, Cusins	.50@ 1.00
Carnations	.50@ 1.00
Lily of the valley	2.00@ 3.00
Smilax	8.00@15.00
Asparagus	35.00@50.00
Cattleyas	20.00@30.00
Adiantum	.50@ .75
Violets	.50@ 1.00
Chrysanthemums	5.00@20.00

BOSTON, Oct. 19.

Roses, Beauties	5.00@25.00
" Kaiserins	2.00@ 8.00
" Brides, Bridesmaids, Meteors	1.00@ 6.00
Carnations	.50@ 1.00
Lily of the valley	2.00@ 4.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00
Chrysanthemums	5.00@10.00
Violets	.40@ .50

PHILADELPHIA, Oct. 19.

Roses, Teas	2.00@ 4.00
" " extra	4.00@ 6.00
" Beauties, extra	12.50@16.00
" " firsts	6.00@ 8.00
" " seconds	4.00@ 6.00
Carnations	1.00@ 1.50
Lily of the valley	3.00@ 4.00
Asparagus strings	35.00@50.00
" Sprengerii per bunch .50@1.00	
Smilax	12.00@15.00
Violets, double	.35@ .50
Cosmos	.25@ .50
Chrysanthemums	12.00@16.00

CITY HALL CUT FLOWER MARKET

WELCH BROS., Proprietors.
The New England Headquarters for the best grade of flowers at all seasons of the year....

9 Chapman Place, 15 Province Street,
BOSTON, - MASS.

Wholesale Florists,
Always on Hand:
CARNATIONS,
BRIDESMAIDS,
BRIDES.

JOBBERS IN FLORISTS' SUPPLIES

FLORISTS' VASES.

Horticultural Auctioneers.
84 HAWLEY STREET, BOSTON.

GEORGE A. SUTHERLAND,

Cut Flowers AND Florists' Supplies

WHOLESALE.

67 Bromfield St., BOSTON, MASS.

IT IS GOOD BUSINESS POLICY TO MENTION THE AMERICAN FLORIST WHEN YOU WRITE TO AN ADVERTISER.

I SELL.... ROSES!

Brides, Maids and Beauties.

TOP GRADE FLOWERS.
EVERYTHING IN MARKET.

John I. Raynor

49 WEST 28th STREET
NEW YORK CITY.

THOS. YOUNG, JR.

Wholesale Florist

43 West 28th Street, New York.

WALTER F. SHERIDAN,

WHOLESALE

FLORIST,

39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application

ROSES LILIES

JULIUS LANG

53 WEST 30th STREET
NEW YORK

CARNATIONS SMILAX

EDWARD C. HORAN,

34 W. 29TH STREET,
NEW YORK,

WHOLESALE FLORIST.

Careful Shipping to all parts of the country.
Price List on application.

JAMES M. KING

Commission Dealer in

CUT FLOWERS.

Good Money for your Flowers.
Good Flowers for your Money.
49 WEST 29TH ST., NEW YORK.
TELEPHONE 1675 38th St.

FRANK MILLANG,

CUT FLOWERS,

WHOLESALE COMMISSION,

408 E. 34th Street,

Cut Flower Exchange. NEW YORK.

J. J. PERKINS. ESTABLISHED 1872. R. POTTER

J. J. PERKINS & CO.,

Wholesale and Commission

FLORISTS...

29 West 29th St., NEW YORK.

SAMUEL S. PENNOCK, WHOLESALE FLORIST,

.....FINE VALLEY AWAYS ON HAND. 612-14-16 Ludlow Street, PHILADELPHIA, PA.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

NEW YORK.—W. J. Mandeville was a recent caller.

LONDON reports demand for Wisconsin green peas; canary seed harder in value, hemp higher, trifolium exhausted.

UNFAVORABLE weather and low prices consequent on over-production the past two years may reduce the output of bouquet green in northern Wisconsin.

TELEGRAPH advice is received that the government seed contract has finally been awarded to the New York Market Gardeners' Association (A. C. Nellis).

KANSAS CITY, MO.—A fire broke out October 11 on the fifth floor of the Trumbull Seed Company, destroying the entire stock on that floor while the water damaged stock in the rest of the building. The insurance is $18,000 which nearly covers the loss.

S. H. CHURCH, of Indianapolis, and Frank T. Emerson, of Omaha, were Chicago visitors this week. Max Wilhelmi, of F. Bartelides & Co., Denver, and H. T. Hopkins, of the John H. Allan Seed Co., Cape Vincent, N. Y., enroute home from the Wisconsin pea district, were in Chicago October 15; Chas. P. Braslan arrived from Southern California October 21; E. H. Vick, Rochester.

The Selection of Fertilizers.

The following, from a recent bulletin of the Kentucky Agricultural Experiment Station, while especially directed to farmers is equally applicable to the growing of plants under glass:

"In regard to the proper selection of fertilizers we can only say briefly that their profitable use will depend upon a knowledge of the needs of the particular soil to which they are to be applied, and the requirements of the crop to be grown. The latter knowledge has been gained once for all for most farm crops by a scientific study of these crops, but the needs of the soil must in most cases be learned by the farmer himself, either from systematic field experiments, or by observation and experience. If it is necessary for a farmer to use commercial fertilizers, and he is working upon a kind of soil that has not already been tested, we believe it will pay him to learn its needs by carrying out systematic experiments with fertilizers. The experiments made at the station amply illustrate this. It would be very unprofitable to buy phosphates for use on soil like that of the station farm, but potash salts could be profitably used there with most crops. This is because the soil is already rich in phosphates. But if it were deficient in phosphates, as is the case with many soils in this state, it would be unprofitable to use potash salts alone, and one would have to supply phosphates. It is therefore necessary in purchasing a commercial fertilizer to consider, first, what our soil needs for the crop to be raised, and then to look for that fertilizer containing most of those substances, in an available form, as shown by its chemical analysis and guaranteed by the manufacturer, at the least cost. It is well to bear in mind, also, that nitrogen compound, are the most expensive constituents of commercial fertilizers, and if we can keep up our nitrogen supply by means of clover, cow peas, or other leguminous plants, or by barnyard manure, and purchase only such phosphates and potash as may be needed, we will have accomplished a great saving."

St. Paul.

WEATHER AFFECTS STOCK.—CARNATIONS BRING BIG PRICES.—CHRYSANTHEMUMS.—TRADE IS GOOD.—STORE NEWS.

Damp, dark weather has had a deteriorating effect on stock, curtailing the cut and injuring the quality. Carnations are becoming scarce and are held quite uniformly at $2 per hundred. Roses are fairly plentiful. Chrysanthemums are showing their heads in most stores but do not sell very rapidly. Fitzwygrams are all gone; Bergmann is in its prime; Yellow Monarch and Merry Monarch, a noble pair are arriving in limited quantities; Glory of Pacific made its initial bow October 16 and is disappointing on account of poor color. Elvena, another new pink, made its first appearance the same date. Violets, which were doing nicely, are held in check by the dark weather, so that very few good blooms have been seen as yet.

Shipping trade is reported as excellent by those firms who do a country business. Society is just beginning to resume its usual round of gaiety so that business promises a nice increase.

Holm & Olson have doubled the size of their store, put in a large refrigerator and now have one of the finest places in the city.

A. S. Swanson had a very large decoration in Minneapolis a few days since. It amounted to several hundred dollars.

Mr. Ekstrand has abandoned the old houses he formerly rented and has leased H. H. Schulte's place on Grand avenue.

FELIX.

ASHTABULA, O.—Mrs. S. A. Carpenter recently lost a considerable sum, a burglar breaking into her residence.

PORTLAND, ME.—Joseph A. Dirwanger has secured quarters in the Cunningham block where he will open a branch store.

MINNEAPOLIS, MINN.—H. H. Miller, known to the trade as a dealer in green and holly, died recently in Santiago, of yellow fever. He had taken a car load of merchandise there and expected to make a fortune.



HOW TO ...GROW... Mushrooms

My 24-pp. booklet on M. Cult. free to buyers or intending buyers of spawn—to others, 10 cents. New supplement on outdoor culture by JNO. G GARDNER included. Third shipment due to arrive at this port November 7th. Prices on application.

C. C. Watson, Juniper & Walnut Sts., Phila., Pa.

FRESH
Mushroom Spawn.

The BEST and most productive type of English Spawn. Quality and condition guaranteed.

G. H. R. is prepared to ship large quantities throughout the coming season. Lowest terms upon application.

G. H. RICHARDS,
MANUFACTURER.
124 Southwark St., LONDON, S. E.

Will unknown correspondents please enclose London references.

COLD STORAGE VALLEY ALWAYS ON HAND.

CASES of 2500 pips, extra quality, $25.00; per 100, $12.00.
CASES of 3000 pips, good quality, $25.00; per 1000, $10.00.

CLUCAS & BODDINGTON CO.,
501 & 503 West 13th St., NEW YORK CITY.



TRY DREER'S GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

August Rölker & Sons
Supply the Trade
with Choicest Seeds, Bulbs and all Florists' Supplies; many choice Novelties offered for the fall trade. . . .
FOR LISTS ADDRESS
52 Dey Street, NEW YORK.

BURPEE'S
SEEDS
PHILADELPHIA.
Wholesale Price List for Florists and Market Gardeners.

Tree and Shrub Seeds
and Forest Collected Seedlings a specialty. Price list on application. Magnolia Tripetalia and Dogwood Seeds, 10 lbs. of ea. $8.
HORACE PERRY, ROLETA, Warren County, TENNESSEE.

The Only Machine
on the market for automatically filling and sealing seed packets.
The Brown Bag-Filling Machine Co.
FITCHBURG, MASS., U. S. A.

COX SEED CO.
SEED GROWERS
San Francisco, Cal.

Established in 1876.
SPECIALTIES....
Onion, Lettuce, Celery,
Sweet Peas
IN VARIETY

WIETOR BROS.

WHOLESALE
GROWERS OF.....

Cut Flowers

....OF....
Carnations

We grow 50,000 plants of all the leading varieties, and they cannot be surpassed.

We are Headquarters for

American Beauties

of which we cut from 2,000 to 3,000 daily. Our Brides, Meteors, Maids and Perles were never better.

WIETOR BROS.

51 Wabash Ave., CHICAGO.

REGULAR SHIPPING ORDERS WILL RECEIVE SPECIAL ATTENTION.

A Catalogue For You

Low prices on first-class Fall goods. Address

A. HERRMANN Manufacturer of Florists' Supplies.
404-406-40 -410-412 E. 34th St., New York City.

John Conley & Son,

Manufacturers of
TIN FOIL
2 AND 4 DOMINICK STREET,
New York.

REED & KELLER.....

Florists' Supplies

122 W. 25th St., NEW YORK CITY.

LONG NEEDLE PINES..$5.00 per 100
PALM LEAVES.....$2.00 per 100
DAGGER FERNS.....80c. per 1000
WILD SMILAX in any size cases. EVERGREENS of all kinds shipped promptly and on short notice.
Telegraph Station, Owassa, Ala. Jno. S. Daw, GRAVELLA, ALA.

HAIL

For Insurance Against Damage by Hail
Address
JOHN G. ESLER, - Sec'y F. H. A.,
SADDLE RIVER, N. J.

CHRYSANTHEMUMS AT.... MODERATE PRICES.

We have a very choice lot, all grown to single stems, and for the coming week will have, in yellows Mrs. O. P. Bassett and Mrs. Whilldin. In whites, Mrs. H. Robinson and extra fine Ivory. Prices, $1.00 to $2.00 per dozen.

Bassett & Washburn, STORE: 88 Wabash Ave., CHICAGO
GREENHOUSES: HINSDALE, ILL.

ATTENTION, SECRETARIES!

OF CHRYSANTHEMUM CLUBS AND EXHIBITIONS.

The season of Chrysanthemum Exhibitions being close at hand, we have, as in seasons past, placed ourselves in position to supply your Club with our beautiful CHRYSANTHEMUM LITHOGRAPHS. We have just issued, at a very great expense, two new lithographs (a full sheet and a half sheet), which we believe are the handsomest yet offered. They are entirely new in design, and, being highly illuminated are admirably fitted for advertising your coming exhibition.

We respectfully solicit your patronage, and will be pleased to send samples and prices on application. ORDERS WILL BE PROMPTLY FILLED.

THE COURIER LITHOGRAPHING COMPANY, Buffalo, N. Y.

Have you received our NEW CATALOGUE of FLORISTS' SUPPLIES WIRE WORK, etc.? If not, drop us a postal and same will be mailed to you. Please inspect it before buying elsewhere.

HOLTON & HUNKEL CO.

Wholesale Commission Florists.
DEALERS IN
FLORISTS' SUPPLIES, PLANTS, BULBS, ETC.
Manufacturers of WIRE DESIGNS. P. O. BOX 103. MILWAUKEE, WIS.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

A. L. BROOKE, Pres.; E. ALBERTSON Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

OSCAR LAMAR has purchased the McQuigg farm near Waco, Tenn., for the purpose of establishing a large nursery.

B. B. JORDAN, McCune, Pa., has an apple orchard of 160 acres of trees from four to sixteen years old from which he has thus far picked and marketed 1600 barrels at an average price of $3 per barrel.

C. H. PERKINS, of Jackson & Perkins Co., has just purchased a farm of 338 acres located about two miles southeast of the village of Lyons, N. Y., consideration $13,000. The place is known as the Moses Mirick farm and was once sold for $25,000.

Enforcing a Nursery Contract.

Eight years ago a western nurseryman was awarded a contract to set out a large number of trees along the streets of Garden City, Kas., upon the understanding that he was to be paid for such of them as might be found to be growing and thrifty at the end of two years. The two years rolled around and the contractor called for an inspection and counting of the saplings.

Under the advice of the city attorney the municipal authorities refused either to conduct the inspection or to pay for the trees, claiming that the whole contract was illegal.

The nurseryman carried his case to court, and has just been awarded a verdict for $33,133, representing the contract price of every tree which on his own testimony was in good condition at the stipulated time.—*Nazareth, Pa., Item.*

KENTUCKY FIELD-GROWN **ROSES**

Am. Beauty	La France, white
La France, pink	Belle Siebrecht
$15.00 per 100.	
Bridesmaid	La Passe Vera
Mme. Jos. Schwartz	Mme. Jean Sisley
Mme. Camille	American Perfection
Comte de la Barth	Vic. de Wautier
Henry M. Stanley	Bougere
Souv. de F. Gaulain	Grazilla
Lady Castlereagh	Louis de la Rive
Mme. Margottin	Mme. Etienne
Homer	Adam
Mme. Cecil Brunner	Duchess of Edinburgh
Leonie Oesterrieth	Elisa Heyman
Celstea	Pink Daily
Mignonette	Arch Duke Charles
Empress of China	Agrippina
Mme. Schwaller	Louis Phillips
Monte Carlo	James Sprunt
Mrs. Degraw	Mme. C. Kuster
Elisa Boelle	Little Pet
Pesse Sagan	Mme. Bosanquet
Chas. Rovolli	Mme. Lambard
Cath. Mermet	Mosella
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Manufacturers and Importers,

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OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

ORANGE, N. J.—The New Jersey Floricultural Society has organized a bowling club and practice games are indulged in every Friday evening.

Sport at St. Louis.

Several of the best bowlers are on the sick list, which accounts for the small attendance at the last game. Here is the score:

Name.	1st	2d	3d	4th	5th	Av
J. J. Beneke	129	163	121	216	145	154
C. A. Kuehn	137	162	99	126	171	139
C. C. Sanders	111	122	116	134	146	125
F. J. Fillmore	67	116	127	130	118	111
R. F. Tesson	107	118	92	89		101

With Chicago Bowlers.

Honors were easy at the last meeting. While John Zech made the high average J. S. Wilson rolled 182, which was the best record made. Following is the score:

Name.	1st	2nd	3d	4th	Av
John Zech	144	163	174	123	151
J. S. Wilson	182	110	145	122	139
Jno. Degnan	141	142	143	102	132
P. J. Hauswirth	131	136	128	131	131
C. Hughes	113	125	97	140	118
Alex Henderson	147	108	103	107	116
A Lange	108	129	105		114
Henry Rowe	84	90	145	78	99
J. C. Vaughan	82	93	93		89

Indianapolis Pastimes.

John Hartje has built a large basin under one of his carnation benches and there he keeps his minnows for bass fishing.

The organization of the Florists' Bowling Club is postponed till after the show.

The monotony of the flower hall in Market was recently broken by a boxing match between two florists. The contestants were not evenly matched in weight and showed a deplorable tendency to disregard scientific rules and flower vases. H. JUNGE.

Bowling at Flatbush.

Four new balls, two sets of new pins, a coat of paint on the walls and of oil on the floors, makes the alleys very fresh and attractive looking, and the bowlers are eager for visitors, so that they may show how nicely the Flatbush boys are provided for. At the last meeting, October 13, Riley, who is one of the strongholds of the club, couldn't roll 100, but Louis Schmutz made an average of 165 in three games, a feat which he duly celebrated by performing a series of somersaults. J. H. Troy and J. I. Donlan, of New York City, were visitors. Prosser won the "pot."

New York Bowling.

The New York Florists' Club will bowl at Immen's alleys, corner Thirty-second street and Fourth avenue, every Monday evening except the second Monday in each month when the bowling will take place in the afternoon, that being the evening for the regular club meeting. The first trial of the alleys was on Monday evening, October 17. The scores made were so large that, by request, we refrain from publishing them lest this might frighten away other clubs and thus make a match game impossible. It will do no harm, however, to say that J. H. Troy made highest score, even Alex. Burns and Theo. Roehrs having to succumb to this new champion. By-laws will be adopted on Monday evening, October 24, and every member of the New York Florists' Club should be present.

With Cleveland Bowlers.

That which was intimated some time ago as likely to occur, has taken place, and the bowling club as a separate organization no longer exists. Formal action has been taken and all members of the Florists' Club are now entitled and welcome to the use of the alleys upon equal terms with the bowling contingent. Bowling will be the pastime hereafter at the conclusion of the Florists' Club meeting upon the second and fourth Monday evenings of each month, and on all the other Monday evenings of the year all members of the Florists' Club who are in good standing are at liberty to disport themselves upon the alleys to their heart's content. Heretofore pretty much all the fun going has been the exclusive property of the bowling club, but these new arrangements give everybody a chance. A.

FITCHBURG, MASS.—Joseph Fuller had his first flower opening for the season on the afternoon and evening of Thursday, September 29. A gratifying attendance of the public was secured and the establishment looked exceedingly well in its holiday dress.

EDWARDSVILLE, ILL.—J. F. Ammann will send 700 pot plants to the show at St. Jacob early in November.

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PERLES	2.00	to 3.00	FERNS, common	.20	
ROSES, our selection	2.50		" " per 1000	$1.50	
CARNATIONS, common	.75	to 1.00			
" fancy	1.25	to 1.50			
TUBEROSE "SPIKES"	3.00	to 5.00			

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Large plants suitable for 5-inch and 6-inch pots, $6.00 per 100.

Hydrangea Otaksa.

Nice stock, just right for 5-inch, 6-inch and 7-inch pots, at $5.00, $8.00 and $10.00 per 100.

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Suitable for 4-inch pots, $6.00 per 100.

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Come, see and convince yourself.

HYDRANGEA OTAKSA

XX strong plants, per doz., $3.50; per 100, $27.50
" " for 5 and 6-in. pots.....per doz., $3.00; per 100, $20.00
Medium size, " 2.00; " 12.00

ERICA FRAGRANS, 5 & 6-in pots, per doz., 4.50
Extra fine plants.

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From January to December it can be had in bloom; both small as well as large plants produce spikes in great profusion. Fine, well-rooted plants, ready for delivery October 20th, in 2½-inch pots, $1.00 each, or $9.00 per dozen Strong plants, in 4-inch pots, $2.00 each, or $15.00 per dozen.

Orders filled strictly in rotation.

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ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
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STEADY DEMAND FOR GOOD STOCK.—OUTDOOR BLOOMS AT THEIR BEST.—HOFFMEISTER'S NEW ROSE.—CHRYSANTHEMUM COMMITTEE'S FIRST MEETING.

Trade in cutflowers has been fairly good the past week with a steady demand for good stock. Roses and carnations are improving daily in quality. As yet we have had no frost and outdoor flowers such as cosmos and dahlias are at their best at present. The Sixth street flower market has been overloaded with these flowers and prices realized are accordingly low.

Last week I visited the Hoffmeister Floral Company's place and found genial Aug. Hoffmeister busy tying up a house of his new rose, a sport of the old Catherine Mermet. This house is worth seeing. Planted the latter part of June out of 2-inch pots, the benches are crowded now with a robust growth covering every inch of space. The color is a shade darker than Bridesmaid and Mr. Hoffmeister claims it as a better keeper. This sport originated with them three years ago and several prominent rose growers predict a future for it. All of their rose houses are in excellent condition.

Nathan Smith & Son, Adrian, Mich., had a seedling chrysanthemum before the A. C. S. committee here October 15. The flower is white with a slight cast of cream, of good size and strong stem. No doubt this is an improvement over existing varieties owing to its earliness.

John Evans, of Quaker City Ventilator fame, was a caller Saturday. John had his usual smile upon his countenance and sold two machines during his stay.

H. SCHWARZ.

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KENTIA BELMOREANA, per 1000, 12s
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2¼-inch pots,	4 to 5 inches high	$ 8.00	$ 70.00
2¼ "	6 to 8 "	10.00	90.00
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HEADQUARTERS FOR "FANCY" BULB STOCK.

Butte, Mont.

Law Bros. & Day suffered a severe loss by fire in their greenhouses on October 9. Previous to that they had found the demand for cut flowers far beyond the supply and were shipping in stock from Chicago, Milwaukee and Denver. They had 15,000 square feet of glass, under which they grew roses, carnations, chrysanthemums and smilax, and prided themselves on having the largest retail business, according to the amount of glass, west of the Missouri river. They will force more bulbs this season than have ever been forced in the state and their stock in general was in fine condition for the winter, especially in the new houses which were planted to roses and smilax. It is expected that they will at once repair the damage to their houses.

The State Nursery Co., of Helena, reports a good retail business at their Butte branch.

L. A. Brouillard met with a serious loss by fire October 7. The fire started in the living rooms, which were attached to the greenhouses, and the dwelling rooms, including all furniture and personal effects, were consumed and about two-thirds of the greenhouses were destroyed. Mr. Brouillard, wife and five small children barely escaped with their lives; loss about $3000, insured for $1500. L.

Worcester, Mass.

Chrysanthemums are in, very good blooms of Bergmann, Glory of Pacific and Marion Henderson, and are selling well, averaging $3 per dozen at retail. Trade is very satisfactory and has about struck its winter gait. Good flowers are available in quantity, with no over abundance.

A. H. L.

EXTRA HEAVY **Clean Stock!**

Kentia Belmoreana

6-in., 5 to 7 leaves.....$15 to $24 per dozen.
5-in., 5 to 6 leaves..... 12 "

Kentia Fosteriana

6-in., 5 to 6 leaves.....$12 to $18 per dozen.
5-in., 4 to 5 leaves..... 9 to 12 "

FIELD GROWN **CARNATIONS...**

A fine lot ready for delivery.

THE COTTAGE GARDENS
QUEENS, N. Y.

BLACK CALLAS

FIRST SIZE.....per 100 $3.00
SECOND SIZE..... " 2.00

VAUGHAN'S SEED STORE,
NEW YORK: 14 Barclay St.
CHICAGO: 84-86 Randolph St.

SPECIAL OFFER!

Pandanus Utilis, 2½-in. pots, beautiful, clean stock, $8.00 per 100. Only a limited number, fine for growing on....

SIEBRECHT & SON
NEW ROCHELLE, N. Y.

Mention the American Florist.

AZALEAS

Large Stock of Best Forcing Varieties.

Order early and save heavy express charges. Can be safely freighted during October.

10 to 12 inch Crowns $35 per 100. 12 to 14 inch Crowns $48 per 100. 14 to 15 inch Crowns $55 per 100.



CYCAS REVOLUTA, fine stock, medium sized plants, with 6 to 8 leaves $1 each, 8 to 12 leaves $1.75 each, 12 to 15 leaves $3 each.
ARAUCARIA, Excelsa, 10 to 12 inches high $1 each, 15 inches high $1.25 each, 15 to 18 inches $1.50 each.
ASPARAGUS, Plumosus Nana, 2½ inch pots $5 per 100, 3 inch pots $6 per 100.
ASPARAGUS, Sprengerii, 2½ inch pots $5 per 100, 3 inch pots $6 per 100, 4 inch pots $15 per 100.
NEPHROLEPSIS, Exaltata Bostoninsis, 2½ inch pots $6 per 100.
ROSES, Field Grown, H. P. Etc. Large stock of strong healthy plants of best varieties for forcing, such as Baronesse Rothschild, Madam Gabriel Luizet, Magna Charta, Ulrich Brunner, Anna Diesbach, Gen. Jacqniminot, Mrs. J. H. Ling, Etc., $10 per 100. Write for prices on larger lots. Clio and Machioness of Londonderry $12 per 100. Crimson Rambler extra strong $12 per 100.

Full stock of Palms, Ficus and other Greenhouse Plants.

Headquarters for ORNAMENTAL TREES and SHRUBS. Correspondence and personal inspection solicited.

THE STORRS & HARRISON CO., Box 45 Painesville, O.

SPECIAL OFFERS FOR 1898.

Our $50.00 per 1,000 Offer on Deciduous Shrubs.

An assortment of TWENTY VARIETIES (fifty each), purchasers' selection from Shrubs quoted in trade list at $4.00 to $7.00 per 100, will be furnished for **$50.00,** F. O. B. when cash accompanies order, otherwise packing charged at cost.

Our $75.00 per 1,000 Offer on Deciduous Shrubs.

An assortment of TWENTY VARIETIES (fifty each), purchasers' selection from Shrubs quoted in trade list at $7.00 to $10.00 per 100, will be furnished for **$75.00,** F. O. B. when cash accompanies order, otherwise packing charged at cost.

100,000 California Privet, 1 year, 2 years and 3 years.
5,000 Deutzia Gracilis, 12 to 15 inches, very fine for florists to force, $6.00 per 100; $50.00 per 1000.
10,000 Hydrangea Paniculata, different sizes.

Very Low Prices on Vines.

AMPELOPSIS VEITCHII, 1 year	$35.00 per 1000.
" " 2 years	50.00 per 1000.
ACTINIDIA ARGUTA, or Polygama, 1 year	8.00 per 100.
" " " 2 years	16.00 per 100.
CLEMATIS PANICULATA, from 3-inch pots	35.00 per 1000.
" " from 4 inch pots	60.00 per 1000.
" " open ground, 2 years, very strong	75.00 per 1000.
ENGLISH IVY, 1 year, open ground, strong	50.00 per 1000.
" " 2 years, very long vines.	60.00 per 1000.
WICHURAIANA ROSES, 1 year	40.00 per 1000.
" " very strong, 2 years	75.00 per 1000.

DECIDUOUS TREES.

An immense stock of Norway Sugar, Silver and Sycamore Maples, Purple-leaved Beech, Cut-leaved Birch, Catalpas, Elms, Lindens, Horsechestnuts, Magnolias, Oaks and Willows.

OF INTEREST TO FLORISTS **EVERGREEN TREES** FOR WINTER DECORATIONS

We are specially prepared to supply florists with Evergreens suitable for winter decorations, either for window boxes, tubs or pots. We recommend the dwarf varieties of Arborvitæs and Retinosporas where a small or medium growth only is desired, and tall-growing Arborvitæs where larger sizes are preferable; either size plants are of perfect form and well furnished to the base. We solicit your orders for these.

PRICE LISTS ON APPLICATION.

THE WM. H. MOON CO.
MORRISVILLE, PA.

Successful Growers

Know that they can dispose of all their Surplus Stock by advertising in the American Florist. TRY IT NOW.

CARNATIONS!

Extra fine field-grown plants.
Mrs. S. A. Northway.....Per 100, $10.00
Flora Hill..... " 6.00

PAEONIES.

Fine field roots, with 4-5 eyes.

	Per Doz.	Per 100.
Double Whites.....	$1.50	$12.00
Double Pinks.....	1.00	8.00
Double Red (Officinalis).....	1.50	12.00
Double Red, Tenuifolia fl. pl.	2.50	20.00

PANSY PLANTS from our INTERNATIONAL Mixed Seed, the very best, $4 per 1000.

VAUGHAN'S SEED STORE
Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

Surplus, Field-Grown
CARNATIONS

Clean, healthy, strong plants with plenty of roots.

White Cloud, white.	C. A. Dana, pink.
John Young, white.	Dazzle, scarlet.
Mary Wood, white.	Jubilee, scarlet.
Storm King, white.	Gold Nugget, yellow.
New York, pink.	Psyche, variegated.
Painted Lady, pink.	Lily Dean, variegated.
Mrs. C. H. Duhme, pink	Meteor, crimson.

Send for Price List.

FRED. DORNER & SONS CO.
FA FAYETTE, IND.

I Am Loaded!

Not with wit and humor, but

WITH CANNAS.

For the next 10 days I will sell leading varieties of Cannas dirt cheap for cash. Don't let this chance slip by you.

AUSTRIA, $1.00 per 100; $8.00 per 1000. ITALIA, $1.50 per 100. ALEMANNIA, $2.50 per 100. Also Chicago, Henderson, Franz, Buchner, Egandale, and other leaders, at low rates.

W. W. COLES,
Maple Hill Rose Farm, KOKOMO, IND.

STANDARD CANNAS...

Fall Delivery.

Mme. Crozy	$7.50 per 1000. 2 & 3 str'g eyes.	Italia	$10.00 per 1000. 2 & 3 eyes.
Chas. Henderson		Queen Charlotte	
Paul Marquant		Burbank	
Austria		Florence Vaughan	
Paul Bruant		Flamingo	
A. Bouvier		Mme Montefiore	

Caladium Esculentum.

5 to 7 in.....$2.00 per 100 | 7 to 9-in.....$3.00 per 100
9 to 15-in.....$7.50 per 100

CHILDSI GLADIOLUS, mixed.....$2.75 per 100

All strong, field-grown Bulbs. F. O. B. Warsaw. Cash or references.

C. E. UTLEY, Warsaw, Ind.

CARNATIONS H. WEBER & SONS, Oakland, - Md.

It is good business policy to mention the

....American Florist

when you write to an advertiser.

Our Good Book...

THE American Florist Company's Directory of the trade lists both alphabetically and by states and towns every one of the 13,500 persons or firms in North America engaged in the Florist, Seed or Nursery business. It states in which particular branch of the business each one is engaged, a feature of great value to those who issue catalogues, as by its guidance mailing to those not interested in your goods may be avoided and many times the cost of the book will be saved in postage and printing, to say nothing of disappointment.

Bound in boards, 351 pages, postpaid, $2.
Bound in flexible leather, postpaid, $3.....

THE AMERICAN FLORIST COMPANY
324 DEARBORN STREET
CHICAGO, ILL., U. S. A.

4 Acres Field-Grown Carnation Plants, 91,000.

Our Carnations are first-class in every respect, free from disease and packed lightly by our improved system of packing, by which we can send them to all parts of the United States and Canada in perfect condition.

JUBILEE	BUTTERCUP	CRIMSON SPORT	HELEN KELLER
		$6.00 per 100.	
BRIDESMAID	METEOR	MME. DIAZ ALBERTINI	CHESTER PRIDE
IVORY	ARMAZINDY	PURITAN	STORM KING
SWEETBRIER	L. L. LAMBORN	SILVER SPRAY	WM. SCOTT
MRS. FISHER		$4.00 per 100.	

J. L. DILLON, Bloomsburg, Pa.

CARNATIONS

Fine Field-Grown Plants.

	100	1000
WM. SCOTT	$3.00	$25.00
KOHINOOR	3.00	25.00
GOLDFINCH	3.00	25.00

Heeled in free from frost.
No order for less than 100 accepted.

REINBERG BROS.
51 Wabash Ave., CHICAGO.

ARMAZINDY
CARNATION

Field plants, first size, $3.00 per 100.

E. G. HILL & CO., Richmond, Ind.

Daybreak
CARNATIONS.

I still have about 600 extra fine field-grown plants of this popular variety, at $4 00 per 100. Also 200 METEORS at $3.00 per 100. Others all sold.

W. A. WETTLIN, Hornellsville, N. Y.

Field-Grown
CARNATIONS

The following letter just received:

GEO. HANCOCK & SON, Grand Haven, Mich..

Gentlemen:—Your plants received in good shape. They are the best plants I have ever bought, and am greatly pleased with them.
Respectfully,
H. D. ROHRER, Lancaster, Pa.

We have left a fine stock of

Jubilee, Tidal Wave, Mrs. Duhme, Ivory, Morello, Goldfinch, Harrison's White, Pingree and Firefly.

Send for prices.

GEO. HANCOCK & SON, Grand Haven Mich.

Carnations! FIELD-GROWN.

All sold except	500 Lizzie McGowan
500 Wm. Scott	100 Morello and
300 Emily Pierson	100 Goldfinch

If there is anything here you want, write me and get some low prices on this lot. Address

Chas. Chadwick, Lock Box II, Grand Rapids, Mich.

FIELD-GROWN CARNATIONS.

Ready now. Standard varieties.
Write for prices.

FIELD-GROWN MARIE LOUISE VIOLETS, $4 per 100. A1 stock, from pots, $8 per 100; $25 per 1000.

A few hundred BRIDES and MAIDS at a bargain, from 3-inch pots.

CRABB & HUNTER, Grand Rapids, Mich.

Buffalo.

STOCK IS MORE PLENTIFUL, BUT THE CARNATION CUT IS SHORT.—NOTES AND COMMENTS.

Carnations are not as plentiful as they were a week ago. Dahlias are still to be had but they look lonesome. Chrysanthemums are with us, Bergmann and Mrs. Morrison being most plentiful. A few pink and yellow are to be had. Violets are increasing in number but not so fast in quality. Beauties are fine and find ready sale. Scott shows a handsome window this week of palms and orchids.

Charles Porter is now nicely settled in his new store. Harry Millatt, the former proprietor, departed from Buffalo last Saturday for Kansas City.

The flower show will be held in the new Glensey building and a better place could not have been selected. We are pleased to announce that Adam Graham, of Cleveland, will be the judge on palms and decorative plants.

Recent visitors: Geo. L. Graham and Mr. Valentine, Bradford, Pa.; F. Shoenfelt, Westfield, N. Y.; F. B. Lewis, Lockport, N. Y. W.

POLO, ILL.—M. E. Miller has agreed to supply a chrysanthemum show for the ladies of the Methodist church at Mt. Morris. Mr. Miller took ten premiums at the recent Rochelle fair.

Cyclamen Plants!

NOW READY FOR DELIVERY.

600, 3-inch	pots	at $ 8.00	per 100.
2000, 4	"	at 12.00	"
1000, 5	"	at 25.00	"
500, 6	"	at 50.00	"

The above plants are grown from the very choicest mixture of seed and are guaranteed first-class in every respect.

Shipped direct from the greenhouses.

Vaughan, McKellar AND Winterson

47 Wabash Ave., CHICAGO.

BULBS

Of All Kinds.

Hulsebosch Bros.,

ENGLEWOOD, N. J.

LIL. LONGIFLORUM (Japan).

ORDER QUICK: 6x8, per 100.....$3.00
7x9, per 100..... 5.00

French Roman Hyacinths, 13x15, per 100, $2.50; per 1000 $21. Dutch Hyacinths, finest to color, per 100 $4.25. Named sorts, our choice, dozen, $1; 100, $6. Cyclamen Giganteum Seed, per 100, 75c.; per 1000 $5.

Order AZALEAS now. Address

H. H. BERGER & CO., 47 Barclay Street, New York.

(ESTABLISHED 1878.)

CYCLAMEN PERSICUM GIGANTEUM...

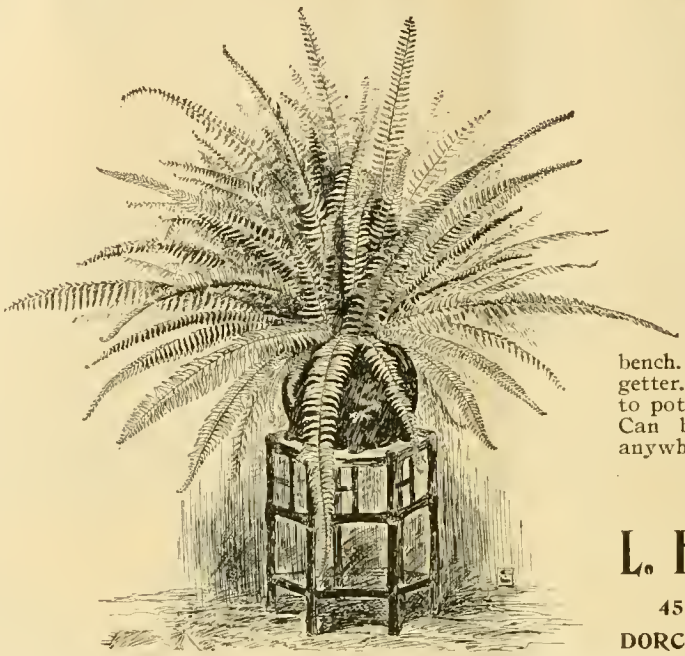
From 4-in. pots		$10.00	per 100;	$75.00	per 1000
" 5	"	15.00	"	125.00	"
" 6	"	25.00	"	225.00	"

CLEMATIS PANICULATA.

Small, about 12-inch	$4.00
Medium, 3 to 4 feet	8.00
Strong, 4 to 5 feet	10.00

Terms cash. Palms, Ferns and Azaleas taken in exchange. **PAUL D. F. STIER, Bayonne, N. J.**

THE BOSTON FERN!



Elegant Specimen Plants

of this beautiful decorative fern for 8 and 10-in. pots, spread 4 to 6 feet, at 50 cts., 75 cts. and $1.00 each, and smaller ones at 20 and 25 cts. each for 5 and 6-in. pots. Cut from bench. No better money getter. Send orders now to pot up for fall sales. Can be safely shipped anywhere in the U. S.

L. H. FOSTER

45 King Street,

DORCHESTER, MASS.

OSTRICH PLUME FERNS

	Per 100
Nephrolepis Pluma, 4-inch pots	$35.00
Latania Borbonica, 5-inch pots, 6 to 8 leaves, 18 inches high	25.00
Adiantum Cuneatum, 4-inch pots, extra strong crowns	20.00
Grevillea Robusta, 5-inch pots, 18 in. high	25.00

Ferns from 2¼-inch pots, Pteris Serrulata Cristata, Pteris Cretica, Alba-lineata and Scolopendrums, $3.50 per 100; $30.00 per 1000.

CASH WITH ORDER.

GEORGE H. GREY, *Florist*, Kenwood, ALBANY, N. Y.

ASPARAGUS SPRENGERI.

50,000 plants in 2½-inch pots, $5.00 per 100, Xpress; 24 for $1.50 by mail.....

Specimens for 8-inch pots, $6 per 12.

A. BLANC & CO.
PHILADELPHIA.

AZALEAS.

First consignment arrived in perfect condition.
Can ship immediately

9-10-inch	$30.00 per 100
10-12-inch	35.00 per 100
12-14-inch	45.00 per 100
14-16-inch	60.00 per 100

All well furnished with buds.

LEADING SORTS: Apollo, A. Borsig, Bern, Andrea Alba, Deutsche Perle, Empress Brazil, Mme. Van der Cruyzen, Simon Madner, Vervaeneana, Etc.

HIRAM. T. JONES, UNION COUNTY NURSERIES, Elizabeth, N. J.

LOWEST PRICES ON BULBS, BUT CASH!

Send in your wants for quotation, no price list issued.

J. L. SCHILLER, 404 East 34th St., NEW YORK.

OUR WELL KNOWN SPECIALTIES.

1500 Rubber Trees, perfect in growth and foliage, 5½-inch $5, 6 inch $7, 8-inch $11 per dozen. 100 at 7 dozen rates.

Latania Borbonica seedlings, low and strong, $3 per 100; $25 per 1000.

25,000 extra well grown Ferns for dishes, $3 per 100; $25 per 1000.

Sword Ferns, Nephrolepis Exaltata, strong, 4½-inch, $10, 5-in., $20 per 100.

65,000 Palms, Dracenas, Pandanus, etc. Send for price list. Medal awarded World's Fair, 1893, on Palms.

☞ We sell for cash only, but allow inspection at express office before accepting.

ALBERT FUCHS,

26 model greenhouses at 2059-73 N. Halsted St., **CHICAGO, ILL.**

10,000 1 sgl. 'Mums ready at low cash prices. A few steady customers wanted for roses and carnations.

Mention American Florist.

Pteris Tremula Ferns

Strong plants, ready to shift to 4 and 5-inch, from 2¼-inch pots, $3.50 per 100; $30.00 per 1000.

R. WITTERSTAETTER,
SEDAMSVILLE, OHIO.

Please Mention The American Florist.

FERNS! ⚜ FERNS!

The following Ferns, TO CLOSE, at $2.00 per 100; $15.00 per 1000. All 2-inch, strong:

Pteris Tremula	Pteris Ensiformis
" Serrulata	Adiantum Cunealum
" Serrulata Cristata	" Williamsii
" Longifiora	" Pubescens

E. HIPPARD, - Youngstown, Ohio.

Please Mention The American Florist.

When corresponding with any advertiser on this page, please mention the fact that you saw the ad. in the AMERICAN FLORIST.

GOLDEN GATE **Rose Plants.**

SELECTED STOCK.

3 and 4-inch pots, $25.00 per hundred.
For Cash or in Exchange.

American Rose Co., Washington, D. C.

ROSES. ROSES.

No finer grown. Big bushy plants, full of flowering shoots, out of 3 and 3½-inch pots, at $3.00 per 100. Meteors, Brides, Bridesmaids, Perles and Beauties. This stock is cheap at twice the price, but must be sold at once to make room.

SMILAX PLANTS. 2-inch pots, full of roots and covered with plant—no finer to be had—at the lowest price ever quoted 75c per 100; $5 00 per 1000.
CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

CANNAS—Rambler Roses

From field for Fall delivery.

Also **30,000 SPIRÆA ANTHONY WATERER.**
40,000 LOCAN BERRY TIPS.

The Conard & Jones Co., WEST GROVE, PA.

Geranium "MARS"

	Per Doz.	Per 100
ROOTED CUTTINGS	$.50	$3.00
2½-INCH POTS	.75	5.00

Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

Chinese Primroses

6000, 2½-inch pots, strong, mixed colors, $2.00 per 100.

PANSY PLANTS. 25,000, $2.50 per 1000. CASH WITH ORDER.

JOS. H. CUNNINGHAM, Delaware, O.

TO THE CATALOGUE TRADE.

10,000 Clumps CANNAS, leading varieties.
5,000 SPIRÆA Anthony Waterer, 1 and 2 year.
5,000 Logan Berry, Strawberry, Raspberry and Golden Mayberry.
5,000 AMPELOPSIS VEITCHII. Write for special prices.
5,000 **VIOLETS**, Lady Hume Campbell, clumps $5 per 100; in pots $3 per 100; California, clumps $3 per 100; Luxonne, clumps $4 per 100.

BENJ. CONNELL, Florist **West Crove, Pa.**
Please Mention the American Florist.

X CYCLAMEN X GIGANTEUM.

New crop seed in best mixture. The finest strain of Giant flowering varieties grown. Be sure to sow. Per trade pkt, 200 seeds, $1.00; half pkt. 50c.

JOHN F. RUPP, Shiremanstown, Pa.

DOWN THEY GO, FOR WE MUST HAVE THE ROOM!

VIOLETS. Marie Louise, field-grown clumps, strong and absolutely clean and healthy. $3.00 a 100, $25 00 a 1000. Seconds (inferior only in size), one-half above prices.

SMILAX. 2½-in., fine, twice headed back. 75 cents a 100. $5.00 a 1000.

Cash with order. Order soon, as stock is limited.

R. KILBOURN, Clinton, New York.
Mention the American Florist.

FINE ROSE STOCK. 3-in. strong, healthy. Maids, Brides, $3.50 per 100; Perles, $5.00 per 100. Extra value, sure to please.....

W. H. CULLETT & SONS, Lincoln, Ill.

PANSY PLANTS!

Stocky plants from Engle's select strain, $4.00 per 1000, cash.

W. J. ENCLE, - Box 211, Dayton, O.

SMILAX PLANTS, $1.50 per 100, $14.00 per 1000.
VINCA VAR., 1 yr., $4.00 per 100; 2 yr., $8.00.
Extra strong, field-grown. Sample, 5c.

J. DANN & SON, Westfield, N. Y.

HERR'S PANSIES. BUY THE BEST

SEED at $1.50 per ounce. A liberal packet for $1.00.
PLANTS at 75 cts. per 100, or $4.00 per 1000; 250 for $1.00, by express.

ALBERT M. HERR, LANCASTER, PA.

HYDRANGEA OTAKSA.

Fine 8-inch pot plants at	$28.00	per 100
" 7 " "	25.00	"
" 6 " "	23.00	"
" 5 " "	20.00	"
" 4 " "	12.00	"
DRACAENA INDIVISA, pot grown, 6-in.	20.00	"
" " " 5-in.	15.00	"
UMBRELLA PLANTS, 3 and 4-in.	$3 & 4.00	"
VINCA VAR., field-grown, fine	6.00	"
CARNATIONS, Rose Queen, strong	3.00	"
" Tidal Wave "	7.00	"
GERANIUMS, S. A. Nutt, rooted cut'gs	12.00	" 1000
" Mme. Bruant, "	12.00	"
" La Favorite, "	12.00	"
COLEUS KLONDIKE, rooted cuttings	1 50	per 100
FERNS, fine, 4 and 5-in. stock, ass'rt'd	1.50	" doz.

CASH PLEASE.

CARL HAGENBURGER, West Mentor, Ohio.

For 14 Days Only!

	Per 100	1000
200,000 Pansy Plants, 500 at 1000 rate		$3.00
50,000 Geraniums, up to date vars., 2-in.	$2.00	15.00
5,000 Coleus, str'g plants, 20 vars., "	1.00	8.00
5,000 Heliotropes, 4 newest vars., "	2.00	18.00
1,000 Southern Tyme, white, 4-in.	4.00	
2,000 Little Gem Feverfew, 2-in.	2.00	15.00
6,000 Flowering Begonias, strong, 20 varieties, 2-in.	2.00	18.00
2,000 Flowering Begonias, 8 varieties, bushy, 3½-in.	3.00	25.00
500 Velvet Plant (Gynura), 2-in.	3.00	
1,000 Primula Obconica, "	2.50	
200 Coleus Brownia (new), "	5 00	
300 Adiantum Cuneatum, 5-in.	10.00	
200 Nephrodium Cristata, 6-in.	10.00	
400 the true Maidenhair Fern, 5-in.	10.00	

THE MORRIS FLORAL CO, MORRIS, ILL.

PANSIES

Roemer's Superb Prize Pansies.

Seed and Seedlings sold out. Large Plants for early winter blooming ready now.

$1.00 per 100. Cash with Order.

PETER BROWN, Lancaster, Pa.

Pink Paeony Clumps FOR FALL PLANTING

At $10.00 per 100. Will divide into two and three. Easily cultivated; need no protection during winter. Any florist having land will find them big payers. Freight any distance.....

BRANT & NOE, Forest Glen, Ill.

WANT ANY.... Pelargoniums?

I have a fine lot in the BEST varieties; strong 2½-in. stock at $7.00 and $9.00 per 100. Address.....

S. S. SKIDELSKY, 1653 North 7th Street, PHILADELPHIA.

BEGONIAS.

	Per 100	Per 100
Argentea guttata, 2-inch, $2 00; 3½ inch, $4.00		
Feastii, speculata, 2-inch, 2 00;		
Rubra, 2-inch, 3.00;		
Bertha Chatteaurocher, Robusta, 3½-inch,		4 00
De Lesseps, Pres. Carnot, 3½-inch,		4.00
Marie Louise Violet clumps		4 00
Roses—La France $3 00 per 100; Meteor		2.50
White, Pink and Yellow Rambler 3½-inch		4 00

THE NATIONAL PLANT CO., Dayton, O.

We like to have you tell our advertisers that you read our paper.

To Catalogue and Market Men.....
NOW READY!

STRONG CANNA TUBERS

of 1 to 3 eyes.

NEW—Florida, Gloriosa, Surprise, Pres. McKinley, $5 00 per 100.

Mme. A. Bouvier, Flamingo, Alsace, Souv. de Antoine Crozy $3.50 per 100.

Italia, Queen Charlotte, Chicago, Philadelphia Eldorado, Comte de Bouchaud, Papa, Glory de Montet. $2.00 per 100.

Burbank, Florence Vaughan, Egandale, Salmon Queen, Sunset Glow, Mme Crozy, Chas Henderson A Bouvier, John Laing, Paul Marquant, Austria, and many more $1 50 per 100.

Full 1000 of Burbank, Austria or Egandale, $8.00
Full 1000 of Florence Vaughan or Queen Charlotte $15.00. (A 1 others named, 10 per cent. off by the 1000.)

ORDER NOW. Nothing reserved at these figures.

F. O. B. Express or Fast Freight.

Pampas Plumes. Crop 1898.

Size in length, exclusive stems. First-class in every respect.

	Per 100
17 to 20 inches	$.75
20 to 22 inches	1.00
22 to 24 inches	1 25
24 to 27 inches	2.00
27 to 30 inches	3.00

Pampas Grove Nurseries, Greenland P. O., Fla.

Cabbage and Lettuce Plants

CABBAGE, Jersey Wakefield, Chas. Wakefield, Early Summer, H. Succession and New Early.

LETTUCE, Big Boston, Boston Market, White Loaf, Tennis Ball, Grand Rapids, Curled Simpson.

15 cts. per 100, $1.00 per 1000, $8.50 per 10,000.
If by mail, add 10 cts. per 100.

TOMATO LORILLARD, pot grown, 25 cents per dozen; $2.00 per 100.

CAULIFLOWER SNOWBALL, 35 cents per 100.

R. VINCENT, Jr., & SON, White Marsh, Md.

SPECIAL BARGAIN OFFER NEW CROP **PANSY SEED** All the Giant and Fancy Strains that are to be had, either in this Country or Europe. Specially made up by us from all the separate colors; and is without question the finest strain of large flowering Pansies. **ONLY 14 CENTS** per trade packet of 500 seeds, or **8 CENTS** for ½ trade packet of 250 seeds; with illustrated directions how to grow big Pansies.

S. Y. HAINES & CO. 105 Boston Block, MINNEAPOLIS, MINN.

Pansies Worth Raising.

EXCELLENT SEED.

3-16 oz. $1.00; 1 oz. $4.00; up in 8 to 10 days, if properly treated.

FINE STOCKY PLANTS, $4 00 per 1000. f. o. b. express. CASH WITH ORDER.

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

ROOTED CUTTINGS. Well Rooted

PETUNIAS, 4 vars., 20c per dozen, $1 25 per 100
STROBILANTHES and HELIOTROPE, 20c per dozen, $1.25 per 100
VERBENAS, 12 vars., 15c per doz., 75c per 100, $6 per 1000.
COLEUS, 10 vars., 15c per dozen, 75c per 100, $5 per 1000.
Sent prepaid anywhere.

S. T. DANLEY, Macomb, Ill.

300,000 Pansy Plants The JENNINGS Strain.

Fine field-grown, stocky plants, in great variety of colors. All large flowering.

By mail, 75 cts. per 100; express, $4 00 per 1000; 5000, $18.00. Seed of above, $1.00 per pkt; $5.00 per ounce.
CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, **Southport, Conn.**
Grower of the Finest Pansies.

Richards Patent

XL

All Vaporizing

FUMIGATOR.



I have imported from London a sample invoice of this Apparatus, and would recommend same for trial to our customers. It is strongly endorsed by the leading horticulturists abroad, and it is worthy of being tested here. If it does all that is claimed for it, it is indeed a boon to the owners of greenhouses.

THE FUMICATOR

is made in two sizes and will last for years. It consists of three parts—the copper cup, cylinder and lamp.

Small size, for 2000 cubic feet, $0.90 each.
Large " " 5000 " 1.00 "

When the lamp is lit and the compound poured into the cup, the person should leave the house and need not re-enter it, as the lamp will die out soon after the compound is all evaporated

THE COMPOUND.

This is supplied in stoppered bottles, capsuled over, as follows:

Sufficient for 5000 cubic ft., $1.25 per bottle.

RICHARDS XL ALL MILDEW WASH (for syringing). A clear wash which does not stain foliage flowers or fruit. Easier to apply and more effectual than sulphur. **Per bottle, $1.25.**

RICHAROS XL ALL LIQUID INSECTICIDE (for syringing). Claimed to be the safest and most effectual Insecticide yet discovered. Full directions on each bottle. **Per bottle, $1.00.**

G. C. WATSON

Bulbs
Rellie
Mushroom Spawn

Juniper and Walnut Sts.,
PHILADELPHIA.

FLOWER POTS

ALL KINDS.

STANDARD POTS A SPECIALTY

List and SAMPLES FREE.

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MANUFACTURERS OF

Flower Pots.

Before buying write for prices.

361-363 Herndon Street
near Wrightwood Ave.,
CHICAGO, ILL.

Standard FLOWER **Pots**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST,

Station M, N. E. WASHINGTON, D. C.

Now Ready

THE American Florist Company's DIRECTORY of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Fully revised to date with upwards of 3,000 New Names. Price $2.00; in flexible leather binding, $3.00.

American Florist Company,

324 Dearborn St., Chicago, Ill., U. S. A.

VAUGHAN'S "ROSE GROWER" BONE MEAL.



This is a special brand we have put up for our trade. It is ground fine, hence acts quickly. Free from acid, very light in appearance, and a superb article. It is made from bone accumulated in large slaughter houses and should not be compared with the Bone Meal made from cattle heads and feet gathered up on the Western prairies. Such Bone Meal, which is dark in color, is fluffy in character, slower to act and not nearly so desirable as our "Rose Grower" bone. Furthermore, the bones of many diseased animals are used in the manufacture of that dark Bone Meal. Our "Rose Grower" bone has been slightly steamed to soften it so it can be ground fine and is thus quicker in its action. A finely ground bone can also be more evenly distributed through the soil.

ANALYSIS:—Ammonia, 4½ to 5½ per cent; total phosphoric acid, 22 to 25 per cent; total bone phosphate, 48 to 54 per cent.

Price, 5 lbs., 25c.; 10 lbs., 40c.; 25 lbs., 60c.; 50 lbs., $1.00; 100 lbs., $2.00; 200 lbs., $3.50; 500 lbs., $8.00; 1000 lbs., $15.50; 2000 lbs., $30.00.

VAUGHAN'S SEED STORE, 84-86 Randolph St., CHICAGO.
14 Barclay St., NEW YORK.

THE HARRISH DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent.

KRAFT'S PLANT TONIC

THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25 cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.

THIS INSECTICIDE IS NON-POISONOUS.

KRAFT PLANT TONIC CO., - ROCKFORD, ILL.

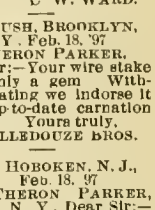
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OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

☞ Write us before placing your orders elsewhere.

CAMBRIDGE TILE MFG. CO., Covington, Ky.





BRANCH WAREHOUSES:
Kearney and Westside Aves., Jersey City, N. J.
Jackson Av. & Pearson St, Long Island City N. Y.

Standard Pots Made by

Good Railroad Facilities For shipping.
Special Attention Given to Mail Orders, and Special Sizes Made to Order.

KELLER BROS.
NORRISTOWN, PA.

Price Lists Furnished on Application.

THOSE RED POTS

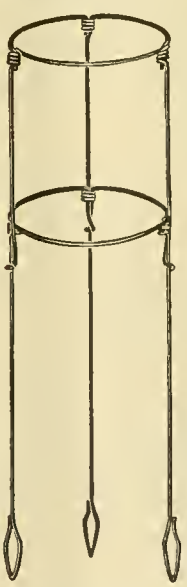
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FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y,

HARRY BALSLEY, Rep. DETROIT, MICH., 490 HOWARD ST.

The MODEL Extension Carnation Support



QUEENS N. Y., Feb. 16, '97.
MR. THERON PARKER,
Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97
MR. THERON PARKER,
Dear Sir:—Your wire stake is certainly a gem. Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, 97
MR. THERON PARKER,
Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes

AT LOWEST PRICES.

Write for Prices, Circular and Special Discounts for Early Orders.

The Model Plant Stake Co.,

THERON PARKER, Mgr., Inventor and Patentee,

22 MORTON STREET BROOKLYN, N. Y.

Mention American Florist.

SAVE 25 PER CENT

on your FLOWER POTS. Send for price list and Bargains to

KILFINGER BROS. POTTERY, Fort Edward, N. Y

CATALOGUE SENT FREE

MERCHANDISE FOR THE HOME, FARM AND FIELD

GALVANIZED WIRE
100 POUND ROLLS—SHORT LENGTHS RUN FROM 65 FEET UP. PRICE PER ROLL 100 POUNDS $1.15.
ANY GAUGE FROM 8 TO 16

OUR PRICES ARE ½ OF OTHERS.

CHICAGO HOUSE WRECKING CO.
WEST 35TH AND IRON STS.
CHICAGO.



PULVERIZED
Sheep Manure

50 lbs., 75c.; 100 lbs., $1.25; 500 lbs., $5.00; 1000 lbs., $9.00; per ton, $17.00, if shipped from Chicago. 50 lbs., $1.10; 100 lbs., $2.00; 500 lbs., $8.00; 1000 lbs., $15.00; ton, $27.00, if shipped from New York.

Vaughan's Seed Store, NEW YORK. CHICAGO.

NATIVE GUANO!
(Desiccated Night Soil.)

The ideal florist fertilizer: contains in available condition, all the elements of plant food. Pleasant to handle. By bag, ton or carload.

STANDARD FERTILIZER CO.,
1822 Filbert St. PHILADELPHIA

Sheep Manure!

IN BULK	Per ton
Pulverized, car lots	$8 00
Natural, car lots	4 00
IN SACKS OR BARRELS	
Pulverized, less than car lots	12 00
Natural, less than car lots	8 00

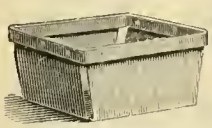
F. O. B. cars here.

Mitchell, So. Dakota. E. C. NEWBURY.

A Few Dollars

will buy a night watchman that is always awake and will ring a call bell when the temperature goes below the required degree. The bell can be placed in residence and is easily adjusted. Better get one before you get a chill. Complete with Thermostat Bell, Battery and 100 feet of copper wire for $5.00.

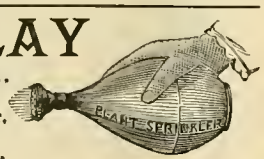
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WILLIAM MAY,
Manufacturer of the
"STAR"
FRUIT PACKAGES

Berry Crates and Baskets a specialty. Facilities unsurpassed. The lowest prices.
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WM. MAY, New Springfield, Mahoning Co., O.

SCOLLAY
SPRINKLER...
INDISPENSABLE



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VAUGHAN'S SEED STORE, Gen'l Western Agents,
84 Randolph St., CHICAGO.

THE BEST FOR ALL Florists

ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE

FOR SALE BY SEED STORES
FOR FREE PAMPHLET WRITE TO
LOUISVILLE SPIRIT CURED TOBACCO CO
LOUISVILLE, KY

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....AMERICAN FLORIST

when you write to an advertiser.

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COR. CLINTON and RANDOLPH STS. CHICAGO.

GREENHOUSE GLASS
OUR SPECIALTY.
LARGE STOCK PROMPT SHIPMENT.
Also Manufacturers of Pure Linseed Oil Putty, Paints, Brushes Etc.
WRITE FOR LATEST PRICES

WHEELER-STENZEL CO.
IMPORTERS AND JOBBERS OF
Greenhouse Glass

Make your contracts for next season now. We can deliver to any part of the country and Save You Money.....

72 Sudbury St., BOSTON, MASS.

Glass Hot Bed, Greenhouse and Ventilator Sash
GULF CYPRESS BARS, ETC.
MANUFACTURED BY
S. JACOBS & SONS, FACTORY: Queens Borough. OFFICE: 406 W. 13th St., N. Y.
WHITE LEAD, PUTTY, Etc., at Wholesale. Estimates Cheerfully Furnished.



GREENHOUSE MATERIAL
Cal. Red Cedar and Louisiana Cypress.
BEST GRADES. PERFECT WORKMANSHIP.
A. DIETSCH & CO. 616-621 SHEFFIELD AVE. CHICAGO, ILL.



NIKOTEEN
IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE
DOES NOT INJURE THE MOST SENSITIVE PLANTS—ENDORSED BY PROMINENT FLORISTS—USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT—200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN—CIRCULAR FREE—
SKABCURA DIP CO. CHICAGO.
Kill and Save the Blooms Bugs!
QUICKLY DOES IT.

Mention the American Florist.

Sulpho-Tobacco Soap

Universal Insecticide
For Flowers, Trees and Animals.
Recommended and in use by the foremost florists and nurserymen in the land.
For Sale at the Seed Stores.
ROSE MFG. CO.
NIAGARA FALLS, N. Y.

FOR SALE CHEAP.
GLASS for Greenhouses, Conservatories, Hotbeds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. THE REED GLASS & PAINT CO., 456 W. Broadway, NEW YORK.

EXCELSIOR
CARNATION SUPPORT



OVER TWO MILLION IN USE.

SOUTHPORT, CONN., Aug 31, 1898.
Mr. H. F Littlefield,
Dear Sir:—We have bought thus far about 25 000 of your Excelsior Carnation Supports and consider it one of the best yet introduced We will want 5000 to 10,000 more this year. Very truly yours.
EDW J. TAYLOR.

PRICES—To test the value of this adv., we will, if you mention this paper, send you 100 any length we make for 75c.; 1000 either 10 or 13 in. long for $6; 1000 either 18 or 20 in. long for $7.

CALVANIZED
STEEL ROSE STAKES.
2 feet long, $4.00 per 1000
3 feet long, $6.00 per 1000
4 feet long, $7.00 per 1000

Cut any length at proportionate prices.

H. F. LITTLEFIELD,
Worcester, Mass.

EDWARD S. SCHMID
—DEALER IN—
Singing Birds, Fine-Bred Fowls, Pigeons, Pet Animals, Gold Fish, Aquariums, etc.
712 12th St., N. W, - WASHINGTON, D. C.
SEND FOR CATALOGUE.

Indianapolis.

ROSES AND CARNATIONS SCARCE.—CHRYSANTHEMUMS IN LITTLE DEMAND.—A VIOLET EXPERIENCE.—SHOW PLANS.—NOTES.

The Columbia Place Floral Company has had chrysanthemums in bloom for some time, but they report very little demand and low prices. Roses and carnations are still scarce but as the plants are in healthy condition good crops of both may be expected in the next two months. Violets are very little grown in this vicinity. Sonnenschmidt & Junge, who for several years past gave one of their houses to this flower, with pretty fair success, are less fortunate this year owing to gallfly.

Huntington & Pages' retail department is now located at 150 E. Market street. To accommodate their growing trade they have added a warehouse to their business located at 225 E. Maryland street.

The October meeting of the Florists' Club was held at Garfield Park Greenhouses and John Heidenreich's paper on market plants was listened to with more than usual interest. He handled his subject as well as only a man of his experience and success in this line of the business could have done.

The show committee met at the residence of John Bertermann October 17 to make the final arrangements. There is on hand about $1700 for premiums and prospects for more. The Merchants Association is co-operating with the florists to make the show a success. The ladies of the free Kindergarten Society will have charge of the cutflower and plant booths. November 8 is the date of opening. After transaction of business everyone enjoyed the hospitality of Mr. Bertermann.

Wm. Langstaff, of the Deaf and Dumb institution, is highly pleased since the state granted him a new greenhouse.

H. JUNGE.

Wheeling, W. Va.

The activity, the hustle and bustle noticeable on all sides leaves no doubt in one's mind as to the advent of a prosperous season. All look forward to the recurrence of the memorable season of 1892.

L. A. Smith has his eye on a fine and commodious store, located on the main business street. Mr. Smith's palms and decorative plants are of the sort to command sales at good figures. His Araucaria excelsa and Ficus elastica are particularly fine, better than one sees at the average florist s establishment. Palms, bedding stock and bulbous plants are Mr. Smith's specialties.

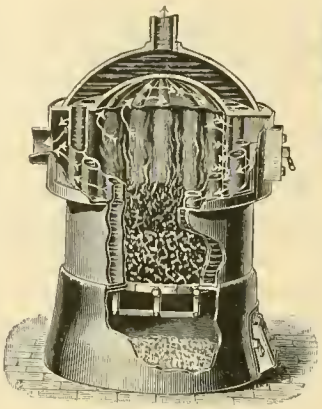
Max L. Hess reports a good all around trade, decorative work being more and more in demand. There is nothing that pleases Max more than to be master of ceremonies at a swell wedding or reception. His artistic skill asserts itself in no small degree when given a carte blanche order.

The genial Franz Laupp has no complaints to make; business has been brisk with him all along.

Chas. Huscroft, of Huscroft Bros., has been confined to his bed the past two weeks. It is a case of appendicitis. The Huscroft Bros. are enjoying a fine trade.

HOMO.

BRISTOLVILLE, O.—The Gaskill greenhouse has again been sold by Sheriff Caldwell to satisfy a claim of Kirk, Christy & Co.



"DORIC" HOT WATER HEATER. SECTIONAL VIEW.

Doric

CAPACITIES FROM 400 to 2600 FT. 2-IN. PIPE.

The Best Boiler on Earth for Greenhouse Heating.

ALSO MADE FOR STEAM.

Water Section Made in One Casting. No Leaky Joints to Worry Over. Deep Fire Pot. No Need to Sit Up All Night to Keep Your Fire Going.

THE STANDARD OF THE WORLD.

SEND FOR FLORISTS' CATALOGUE AND PRICE LIST FREE UPON APPLICATION.

GURNEY HEATER MFG. CO.

NEW YORK CITY BRANCH: 48 Centre St.

74 Franklin St., Cor. Arch, BOSTON, MASS.

When writing mention the American Florist.

Hot-Bed

Sash.

Tenons white-leaded. Corners secured with iron dowel pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments.

We have in stock and can ship immediately:

3	ft. x 6 ft.,	3 rows	10 in. glass.
3 ft. 3 in. x 6 ft.,	4	"	8 in. "
4	ft. x 6 ft.,	5	" 8 in. "

Not glazed, 1¾ in. thick.

Delivered Prices

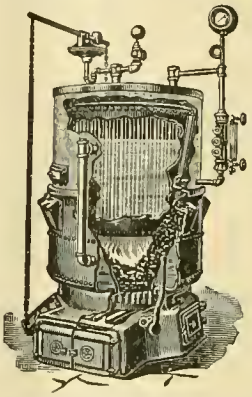
Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

LOCKLAND LUMBER CO.,

Lockland, Ohio.

—THE—

GORTON SIDE FEED Boiler



is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

Further information on application.

GORTON & LIDGERWOOD CO.

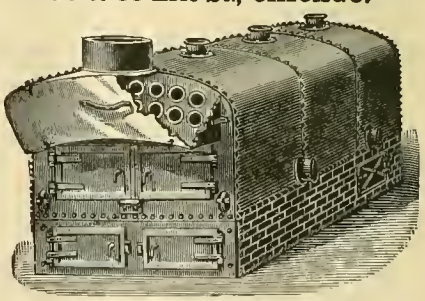
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KROESCHELL BROS. CO.

IMPROVED

Greenhouse * Boiler,

29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

CYPRESS

IS MUCH MORE DURABLE THAN PINE.

CYPRESS SASH BARS

UP TO 32 FEET IN LENGTH OR LONGER.

GREENHOUSE AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."

Send for our Special Greenhouse Circular.

THE A. T. Stearns Lumber Co., Neponset, Boston, Mass.

JOHN C. MONINGER CO. 412 to 422 HAWTHORNE AV. CHICAGO, ILL.

CYPRESS GREENHOUSE MATERIAL OF ANY DESCRIPTION.

SEND FOR CATALOGUE.

Helpful Reminders.

The great danger just now is the penny wise and pound foolish practice of saving fuel to the injury of stock that will take months in recovery. If it will not pay to keep your stock at the temperature requisite for its perfection, throw it out.

Special care should be taken in watering. There is less evaporation by the sun's heat, but firing causes benches to dry from below much sooner than before and you must be on the alert to discover the new points of danger.

In late planting outside cover thickly but not too compactly with leaves, straw or hay to exclude the frost. It will make a wonderful difference in the outcome next spring.

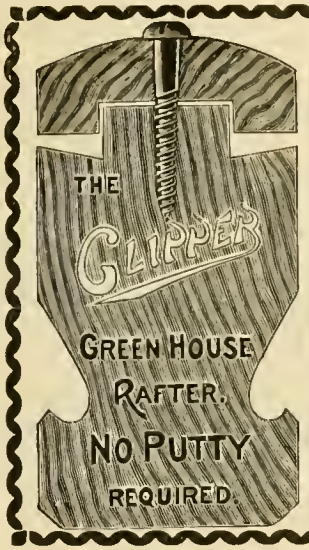
Do not overdo the matter of sword ferns, Asparagus Sprengerii and Kentia Belmoreana. You need a variety of plants and when specialists get to cutting prices you cannot afford to compete.

For decorating, Kentia Forsteriana is best for tall or high effects. The fern Alsophila Australis is extremely valuable. It goes right to pieces if allowed to wilt but, phœnix like, comes up again very soon. The most beautiful of all is Cibotium Schiedii, a tree fern as easily grown as nephrolepis. Its light color is very desirable. The yellow lantana, the Akebia Japonica, Euonymus variegata, tall grown echeveria, the Kenilworth ivy and Maurandya vines are doubly useful for decorations because they are not seen in every florists' window. For grouping plants in decorations an olive green cambric is useful for covering boxes and pots and stands.

Two of the flowers most sought after last spring were iris and Bride gladiolus. The bulbs are very cheap and now is the time to prepare them for spring bloom.

Lay cabbage leaves over your fern benches and go around early in the morning to pick snails from the under side.

The Oreodoxa regia is useful when something tall, graceful and slender is wanted. Calceolarias, cinerarias, cyclamens and primroses must not be allowed to become pot bound. C. B. W.



Butted Glass.

This is no longer an experiment, it has come to stay. There are various ways of making Butted Roofs, but the best way is with the

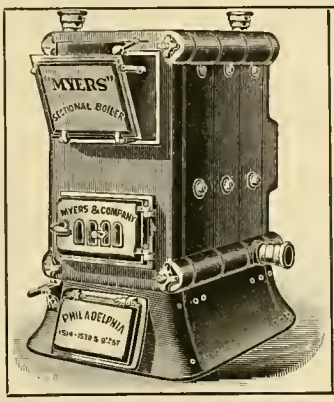
Clipper Bar.

With this bar you can make a roof that is absolutely free from drip, and glass cannot be torn out by the wind. Butted glass makes a tight roof, a warm house and saves fuel. It lasts longer, looks better and costs less than the old-fashioned roof. But do not think that this is the only bar we sell, for it is not; we furnish what people want and there is nothing in greenhouse material that you cannot get from us, and all of open-air-dried Cypress clear of bright sap, stained sap, knots and all other defects.

Lockland Lumber Co.

Write for Circulars or Estimates.

Lockland, Ohio.



33⅓ Per Cent Saved

With Myers' Improved Sectional Hot Water Boiler you save one-third your fuel.

HOW IS THAT?

Send for Book B-5 and you'll find out.

MYERS & CO. 1514-1520 S Ninth St. PHILADELPHIA, PA.

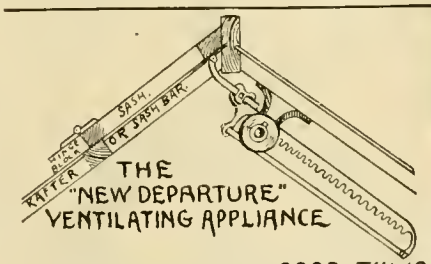
(ESTABLISHED 1849.)

DON'T SYRINGE WITH COLD WATER

It lowers the vitality of your Stock, but write for particulars of my Tempering Apparatus.

HENRY W. GIBBONS, 134-136-138 LIBERTY STREET, NEW YORK.

EXPERT ADVICE AND PLANS FURNISHED ESTIMATES FREE.



THE "NEW DEPARTURE" VENTILATING APPLIANCE

You can not get a *GOOD THING* for nothing. But the price of this apparatus is next to nothing. Send for price and description to

J. D. CARMODY Evansville, Ind.



EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS

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ANGUS MORRISON,

Wholesale Jobber in

PLUMBERS', STEAM, GAS and GREENHOUSE SUPPLIES.

Telephone Lake View 88. 375 LINCOLN AVE., CHICAGO.

LOUISIANA Cypress Green House Material.

J. N. STRUCK & BRO. LOUISVILLE, KY.

RED CEDAR

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GREENHOUSE CONTRACTOR, STEAM AND HOT WATER ENGINEER

The Largest Builder Of Cucumber Houses in the World

Plans and estimates furnished for all kinds of Houses. "N. B." Will accept in payment—**Part Cash, Balance on Mortgage.** A large stock of Greenhouse Equipment constantly on hand.....

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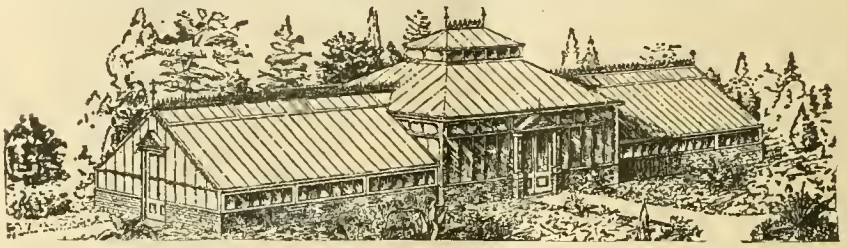
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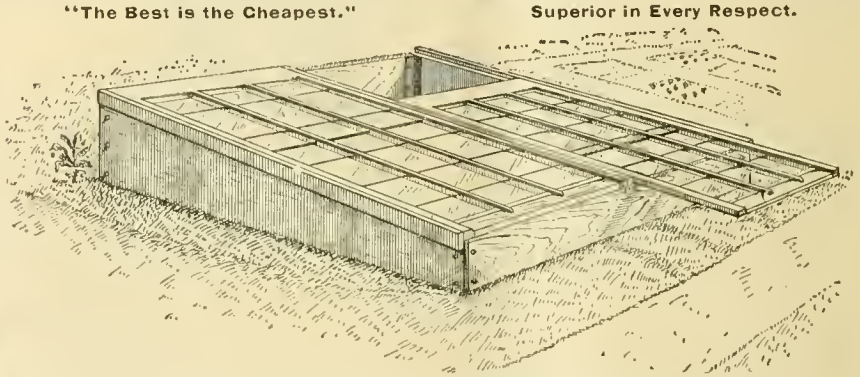
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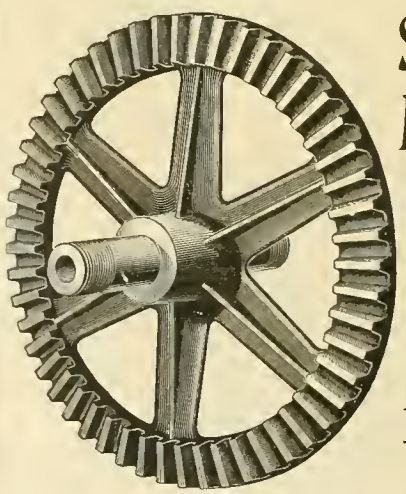
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OFFICERS-ELECT [to be installed Jan. I, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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Cement Paths in Greenhouses.

ED. AM. FLORIST:—What are the objections, if any, to the use of cement for greenhouse paths? What are the advantages attending its use and the best surface shape of path? W. S. J.

ROSES.

CHANGES IN CULTURAL METHODS.

At the recent first annual convention of the Canadian Horticultural Association at Toronto, H. Dale, of Brampton, Ont., presented the following paper upon rose culture:

At the outset I will say that my experience in rose growing has been gained entirely under glass, I never having had anything to do with outdoor culture of this flower. Looking back ten years I see many changes both in the varieties grown, the methods of culture and the handling of the product and I am pleased to be able to say that these changes are all for the better, excepting probably in one particular and that is an important one, the price obtained for our goods. This point I will touch upon later.

First I will speak of the varieties grown. Ten years ago we were growing fully as many or more kinds than now. We had Bride, Mermet, Perle, Sunset, Bennett, La France, Niphetos, Gontier, Bon Silene, Cornelia Cook and a few of the old and well known Marechal Niel. Contrast the foregoing with the favorites of to-day; Bride, Perle and Sunset are about the only ones remaining on the list. A number of new ones have been brought forward for trial during the past decade, most of them only to be discarded as worthless. We can remember the grand flourish with which Puritan, Bell Siebrecht and some others were heralded. Their introducers doubtless admire the very gentle way in which they have slipped out again, along with Waban, Dutchess of Albany, Christine de Noue and several others. A few good ones have been sifted from the chaff and we have Bridesmaid, Mme. Hoste, Wootton, Mrs. Morgan, Mme. Cusin and American Beauty, and none will gainsay that the list of to-day is a great improvement on that of ten years ago.

The tendency now seems to be toward cutting down the list. The call is for Bride and Bridesmaid and each year we have to grow more of these and less of other varieties, so that by far the greater proportion of the bench room is now planted with these two. I fear this continued sameness will be hurtful to the reign of the queen of flowers. She holds sway at present and I believe will continue to do so if new and desirable kinds are brought forward to give us more variety and keep pace with other flowers, for it cannot be denied that great advances are being made in some flowers which are in competition with the rose. This, I know, is not a new idea. Others have felt the same thing and have spoken of it, but I mention it again as I think it is very important. It would be a great boon to rose growers if just at this time, we could get one or two new sorts possessing the good qualities of Bridesmaid and be of some different color or form that would make them acceptable to the flower buying public.

Very little has been done heretofore in America in the way of raising new varieties for, although some of the best are of American origin, they have been sports and the introducers should put forward no claim for honor as originators; Dame Nature deserves all the credit. But, mind you, I do not blame anyone who, seeing a good thing, reaches out and grasps it. Like Micawber, I have been waiting for "something to turn up" in this line myself for the past ten or fifteen years.

In methods of growing I see many changes as compared with ten years ago. At that time solid beds were used to some extent and such beds were solid, with no humbug about it. The earth was spaded over and enriched with manure, the roses planted and allowed to remain from year to year, with a severe pruning back in summer, generally about August. So-called solid beds are still used but they are prepared in quite a different and more elaborate manner with ample drainage and means for admitting air and the introduction of heating pipes under the beds.

Bench roses were grown on inclined benches, each bench or table having a slope to the south of several inches, but of late all benches that I know of are built level and are much easier to manage. I find six feet the most convenient width with walks on either side and would not recommend the use of side benches as I find the main demand is for long stemmed stock which cannot be grown on side benches near the glass. Late planting was the general practice ten years ago, July and August being looked upon as the proper time, but we have been planting earlier each year until May 1 is now considered none too early to make the first planting and all should be finished in July.

The merits and demerits of grafting tea roses for winter flowering have been a question at issue for the past ten years or more. I remember that in 1887 there was considerable controversy among some of the prominent growers in the United States as to whether own root or grafted roses were the most suitable for forcing. It is still an open question. John N. May at that time championed own root stock and I note that he still sticks to his colors. On the other hand there are many who speak highly of grafted plants, and I must be allowed to enroll myself among the number, my ex-

perience going to show that there is a great advantage gained by grafting Bridesmaid and Bride on Manetti. I have had no experience in grafting other varieties, but probably there are other kinds which would be benefited by using the Manetti on some other stock.

In regard to handling our output there is not any great change from methods followed a half-score years ago. Then, as now, the product was sold direct to the retailer, there not being to my knowledge any flowers handled on commission in Canada. But there is a great change in the amount grown, there being fully ten and probably fifteen times as much glass devoted to rose growing as there was at the early period of which I speak. The trade may be said to have been in its infancy then. I shall never forget the time I had an order for fifty white roses and I supplied fifty Niphetos. This was the first time I had been able to supply fifty roses all of one kind at one cutting and I felt very proud and confident that the business surely had a good bottom to it. Our vice-president, F. G. Foster, was the gentleman who favored me with that order. I think that when we look back on such small beginnings only ten short years ago and compare them with the extensive trade now carried on all over the Dominion it is very encouraging and a good proof that rose growing is a substantial business. But I will say that although trade has extended vastly and, from every indication, will continue to expand, prices have gradually declined. They have decreased in this way. Ten years ago it was not necessary to grade the stock; a rose was a rose, be it large or small, long-stemmed or short, all brought the same price and that the top one. Now stock has to be graded and the select blooms will command no better price to-day than the mixture did ten years ago; the second qualities and culls have to be sold at half price, which makes sad inroads on the net income. To counterbalance this we must be on the alert to cut down expense in every way possible, build cheaply yet permanently, use cheap fuel and study to employ the best and most economical methods of growing and handling our stock to the end that we may prosper in our chosen calling.

ROSES AT WABAN CONSERVATORIES.

The discussion at Omaha on the merits of grafted roses for winter forcing stimulated a deep interest throughout the country in this pertinent question. At Waban conservatories, where grafted stock has been grown for a number of years, in increased proportion each year as its advantages become apparent, nothing has transpired to change Mr. Montgomery's faith in the superiority of grafted stock over that grown on its own roots. Brides and Bridesmaids which have been planted but three months out of three and one-half inch pots, are now five feet and more in height and from some plants in this lot there have already been cut in the first crop as many as fourteen good flowers. Every stem is long and wiry, even if the flower is not fully up to size. The only attention given now is to keep them tied in and to secure as hardy and sturdy a growth as possible, which is not an easy accomplishment during the excessively warm weather recently experienced.

All the houses were given a light mulch about September 1. No other fertilizer is applied until midwinter, excepting where the foliage or stem seems to show a lack of nourishment, in which case a very little nitrate of soda is given. In the houses where Bridesmaids are in the second year constant feeding is necessary, as these old established plants are very voracious. Fertilizer is given weekly; that is, nitrate of soda and cow manure every alternate week. A bench of Mrs. Morgans planted in July is composed of one-half own root and one-half grafted stock. The grafted plants are fully four times as large as the own root plants at the present time. With American Beauty no advantage appears as yet in the grafted stock as compared with the own root stock.

Speaking of the tendency of grafted roses to die off at the graft, as referred to at the Omaha convention, Mr. Montgomery says that this trouble comes from the fact that the benches are shallow and it is difficult to get sufficient depth of soil to cover the graft as should be done. When shallow benches are used, he mounds up the soil about the plants slightly so that the graft is two inches under ground. With this treatment the plants are on their own roots three months after planting. He admits that it is useless to plant grafted stock unless this can be accomplished.

President Carnot is throwing a light crop at present but will be kept working until December when it will be allowed to take a rest for about six weeks. The excessive heat recently experienced has been very trying to roses of this character. An effort has been made to keep the night temperature as low as possible, but it has been, under recent conditions, impossible to prevent its going too high. With Meteor no attempt has been made as yet to put the temperature higher than that given to other varieties. The days have been so warm that it keeps its color and opens well and when this is assured a further advance in temperature is neither necessary nor prudent. When the flowers begin to come black, then an increase in the temperature cannot be avoided.

Mr. Montgomery attaches much importance to the manner in which roses are cut and regards as indispensable for this work an observant, careful and experienced man, as when carelessly done it is very easy to spoil the next crop entirely. In cutting teas his rule is to make the cut about the second or third leaf from the base of the stem. This leaves the best eyes for a new growth. Cut a leaf or two higher up than above indicated the next flowers would come more quickly but would not be so good. On American Beauty it is not desirable to cut so far back, especially on the strong canes, as the check is too severe for the plant.

ROSE TROUBLES.

ED. AM. FLORIST:—You will oblige by advising as to the best course to pursue with my roses. I have a glass plant 75x85 feet devoted to 1200 Bridesmaids, 700 American Beauties, 200 Brides, 200 Kaiserins, etc. The stock was planted in 1897. Since last spring the Bridesmaids have been gradually failing. If pruned a little severe they get sick and many die in a month or so. The plants were given one dose of nitrate of soda in January last and a little soot in March. I am unable to state the amount of nitrate applied. Some appear to be healthy, but if pruned the succeeding growth is small, yellow and sickly. They were rested for a few weeks, but always given a little water, except during the week before pruning, and even then they were not sufficiently dry to affect the roots seriously. The day temperature ranges from 75° to 90°, night 50° to 60°. At the present time I am giving them a small dose of bone meal occasionally, but would also like to know the best feed for them, and how often it should be applied.

California. E. L.

These roses are evidently in a very bad way, and it is rather late in the day to attempt to restore them to healthy condition. Judging from the letter describing the treatment given, my impression is that the main trouble comes from an overdose of nitrate of soda. This is a very powerful stimulant; given in weak doses at intervals of three or four weeks when the plants are making lots of growth it is very useful, but an overdose will be as bad for roses as an overdose of stimulants is for men; both lead to bad effects later on.

At the present time I should advise "E. L." to withhold all fertilizers in every form; water very carefully, giving just sufficient moisture to keep the roots active, but syringe overhead on every favorable opportunity, giving all the air possible during the day and a little at night, except in very stormy weather. Follow this treatment till the plants show healthy growth in their leaves, which will be a sure indication that the roots are also getting into active work again. Do not prune anything away from the plants in



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their present condition, as every leaf is of value, but when they show by better growth that they are gaining strength, the very weak thin branches may be shortened somewhat and the stronger growth tied down. This will induce strong, vigorous shoots to start from the base of the plants. When they reach this condition a more liberal treatment may be given them, but a mulching of well decomposed manure not more than half an inch thick spread evenly over the surface of the soil will be much safer till next spring than any artificial fertilizer. Then, if the plants show indications of needing more help, a dose of any weak liquid manure can be applied once every ten or twelve days. If nitrate of soda is used not over one ounce to eight gallons of water should be given at once.

The application of bone referred to by "E. L.," as it was at a time the plants were not in vigorous health, was a positive injury to them. Plants, like animals, as a rule do very much better with plain, wholesome food in reasonable quantities and given at a time when they are hungry, than they will if overfed with rich food which they cannot readily digest.

JOHN N. MAY.

CHRYSANTHEMUMS.

SEEDLINGS AT PHILADELPHIA.

Maryland was well represented at last Saturday's meeting of the C. S. A. committee, which convened for the purpose of examining seedling chrysanthemums. A. A. Seidewitz, Annapolis, Md., had Adeia, an incurved Japanese of a delicate pink tint. It is a bloom very full of florets, and appears to be a good keeper and travels well when shipped, two prime requisites in a commercial variety of the queen of autumn.

Wm. Paul Binder, Rider, Md., had a pink incurved Japanese, darker in color than the foregoing, with larger florets, though not quite so full. The name is Lady Harriett. Is this not dangerously close to one called The Harriott? The same exhibitor also had a delicate yellow reflexed Japanese, which has been named Harry A. Parr.

New Jersey was also in evidence with a variety which will grace any occasion at any season of the year, no matter whether it be mid-season, early or late. Two names accompanied this valuable novelty, Soliel d' October and October Sunshine, and it came from John N. May, Summit, N. J. If the people who buy flowers and the growers who produce them and the retailer who disposes of them were to hold a meeting anent the matter of nomenclature in connection with this particular variety, and had the above data to guide them, they would call it just Sunshine, without even going through the formality of taking the ayes and noes. Whether there is a meeting held or not to decide this important matter, that is the name it will go by when put upon the market. It is a clear yellow, with broad, reflexed florets, and large in size.

P. A. D.

WORK OF THE COMMITTEES.

The several committees of the C. S. A. judged seedlings submitted to it October 22 as follows:

NEW YORK, N. Y.—David Rose, Jersey City, N. J., exhibited Dolly Rose, Japanese, reflexed, white sport of Glory of Pacific; scored commercial scale 87, exhibition scale 81 points. Wm. Paul Binder, Rider, Md., exhibited Harry A. Parr, Japanese, yellow; scored commercial scale 78 points.

PHILADELPHIA, PA.—Wm. Paul Binder, Rider, Md., exhibited Lady Harriett, incurved, Japanese, pink; scored commercial scale 86, exhibition scale 86 points. The same grower exhibited Harry A. Parr, Japanese, delicate yellow; scored commercial scale 92, exhibition scale 90 points. John N. May, Summit, N. J., exhibited October Sunshine, reflexed, Japanese, clear yellow; scored commercial scale 93, exhibition scale 94 points. Ed. A. Seidewitz, Annapolis, Md., exhibited Adelia, incurved, Japanese, delicate pink; scored commercial scale 93, exhibition scale 94 points.

CHICAGO, ILL.—Wm. Paul Binder, Rider, Md., exhibited Harry A. Parr, Japanese, yellow; scored commercial scale 79 points. Nathan Smith & Son, Adrian, Mich., exhibited 12—10—97, Japanese, incurved, white; scored commercial scale 83 points.

BOSTON, MASS.—Wm. Paul Binder, Rider, Md., exhibited Harry A. Parr, Japanese, light yellow; scored commercial scale 79 points. ELMER D. SMITH, Sec.



POSTER DESIGNED FOR THE CHICAGO HORTICULTURAL SOCIETY BY K. A. BEUHR.

EXHIBITION POSTERS.

The accompanying illustration shows a poster designed for the Chicago Horticultural Society by K. A. Beuhr. Printed in five colors, it is one of the best advertising features of this character so far produced for the use of horticultural societies. The Courier Lithographing Company, of Buffalo, N. Y., also issue a very good poster for chrysanthemum exhibitions. In the latter a cluster of chrysanthemums (life size) is shown in a bowl, with the words "chrysanthemum show and floral exhibition" in prominent lettering.

CHARLESTON, ILL.—Miss Etta Nott made a very creditable display at the Farmers' Institute here October 27 and 28. The stock at her greenhouse is in excellent condition.

CARNATIONS.

AMONG THE GROWERS.

Albertini and Bridesmaid are considered the best varieties by August Dressel, Chicago. Mr. Dressel has 1000 plants of the newer sorts and grows several thousand each of Scott, Daybreak and McGowan.

A. G. Prince & Co., who are the selling agents for the Hinsdale Rose Co., are receiving the cut from seven carnation houses and find them marketable at good figures. Mr. Prince speaks highly of Flora Hill and considers it certainly the best white, if not the best commercial variety of the many sorts in general cultivation.

Henry Mundt, Oak Park, Ill., has found Flora Hill to have a too weak stem and has also failed to find merit in Jubilee. His principal varieties are Daybreak, Tidal Wave and Silver Spray. The only new sort he is trying is the Stollery Bros'. Argyle, which has done well thus far.

Wietor Bros., Chicago, are growing nine more houses of carnations than they had last year, in all something near to 50,000 plants. They are particularly pleased with Triumph and are cultivating it largely this year in place of Wm. Scott. Their collection includes almost all of the standard varieties and many new sorts, and they report the plants in excellent shape.

A. H. Schneider, Oak Park, Ill., has benched 1500 Daybreak, 1000 Wm. Scott, 500 Tidal Wave and an equal number of Flora Hill, together with a quantity of Mayor Pingree and newer sorts. He finds Flora Hill a free bloomer and the flowers large. Scott and Fisher he found to be the best for summer blooming.

Stollery Bros., Chicago, are growing many new sorts and 500 second year seedlings from which they hope to pick out as good a novelty as their Argyle. They are growing 3500 of this variety and have found it a good seller this season. McGowan was once their best paying variety, but the returns have so diminished that they dropped it this season.

Bassett & Washburn, Hinsdale, Ill., have the largest carnation house in America. It is 52x600 and contains upwards of 30,000 plants. Most of these are new varieties, with a few Daybreak and Scott. Mrs. Bradt was one of their best paying varieties last year and Jubilee did well; the latter variety Mr. Bassett believes to do best when grown continuously under glass. Mary Wood is a new sort which will be accorded a large place if this season's test shows it to be prolific enough to be profitable. Mr. Washburn is enthusiastic over the big house and says that it is producing better blooms than do their ordinary houses.

Charles Schafer, Chicago, has not increased his last year's planting, but is growing 30,000 fine, healthy plants. Lizzie McGowan is his leading variety, as he has 12,000 of them. He benched 5000 each of Tidal Wave and Nancy Hanks, 4000 Wm. Scott, 2000 Daybreak and 1000 Flora Hill and has 1000 of the novelties, including a few hundred each of Argyle, Painted Lady, White Cloud and Evelina. Mr. Schafer considers Argyle the best of all the new sorts.

SUPPLY AND DEMAND.

From a grower's point of view it is very plain that there is danger of an overproduction of carnations; in fact it looks as if the overproduction was going to be an apparent factor this season. Production will eventually regulate itself, but there is another and more important element in the market and that is the reduction of the consumption of cut flowers in general.

The fact that flowers are no longer used for personal adornment at balls, the theatre, or at other gatherings, is indicative of a lack of love for flowers and is from both a moral and aesthetic point of view very deplorable. It sometimes seems as if our retail men had become so lofty and artistic in their ideas for the use of flowers that they have let the individual love for a few flowers die out of their trade entirely and cater only for immense decorative effects such as are practically beyond the reach of persons of limited means. The result is an irregular and unsteady market with thousands of flowers going to waste, or to the street fakirs, which is worse than waste.

So long as the grower is pulling one way, the wholesaler another, and the retailer a third, we can expect nothing but dire consequences and the idea that grower and retailer have nothing in common is all tommyrot of the worst kind, for they have every thing in common if they can but be made to appreciate that fact. Make it your business to attend the local club and attend it regularly. Demand an answer to some of the problems of trade that perplex you and if this is persisted in you will eventually get the club members in a communicative habit which will be of great benefit all around. I attend my club once a month almost as regularly as the month comes around and find it profitable even though I have to travel sixty-nine miles each way to attend the meeting. Perhaps this does not add to the price I receive for carnations but it does add to my knowledge as to how to grow them to the best advantage, how to ship them, what varieties are taking in the market, what are likely to become leading sorts for the next season and a host of little things which help make my business more of a success than if I stayed at home and allowed myself to get rusty.

The American Carnation Society affords much help to the grower who is interested in this flower and if he attends its meetings instead of falling back in the race he will be going forward and thus gain far more than the amount of the dues and the cost of attendance at the meetings. Neither the local club nor the national society can create a demand for cut flowers but they can and do give us some ideas as to the best method of disposing of our stock and the society by its free exhibition always arouses additional interest among the buying public which does, in some degree, help the market. If the carnation men of the country would support the society properly this feature of its work could be carried to such a point that it would very materially aid in fostering a love for carnations and if this were followed up by the retail men being careful to still further nourish this growing popular favor by selling only such blooms as would be sure to keep for a few days at least, and putting them up in an effective manner so as to bring out their full beauty, we would eventually get a market that would be in some measure near the production of the growers.

ALBERT M. HERR.

Winter Treatment of Aquatics.

It is well to bear in mind one thing, that water lilies classed as hardy are hardy only in the sense that if planted in open, or natural waters with mud bottoms, they will survive the winter; but they are not hardy in the sense that a pæonia or hyacinth is; they cannot endure protracted hard freezing and thawing. During the summer nelumbiums or lotuses make long, jointed runners, the joints sometimes three feet apart, which creep along just under the surface of the soil. These runners will travel thirty or forty feet in a season and at the approach of frost turn straight down. If the soil is soft they will dive two or three feet, entirely below the frost line, where they form a tuber, which remains dormant until the warm days of spring. Nymphæas do not make this perpendicular turn but are more hardy than lotuses and if planted in ponds with mud bottoms will need no attention.

Now, when the hand of art interferes with these natural laws of self protection it becomes necessary for that same hand to devise a means of care. Where hardy lilies have been put out in shallow ponds with hard or rock bottoms and it is evident the roots will be exposed to hard freezing, a good protection of brush, straw, leaves or other convenient material should be thrown over them. The same will apply to lilies planted out in boxes and sunk in a pond. In tanks or artificial ponds when the water is to be drawn off over winter, the lily roots should be taken to the greenhouse or cellar, but if the water is to remain, any protection that will save the walls of the pond will be sufficient for the hardy lilies.

Tubs with lilies growing in them should now have the water poured off and be taken to the cellar or otherwise prevented from freezing. The soil should not be allowed to become too thirsty and if there are any tropical lilies planted in them, these should be taken to warmer quarters. All the tropical water lilies everywhere north of the extreme southern states, should be wintered in a greenhouse or warm cellar. The Zanzibars and a few other varieties refuse to "dry off" and if kept over winter will have to be bedded in tubs or tanks of water and kept in a half growing state in a greenhouse. Practically speaking, however, all the tender nymphæas have by this time formed tubers as plump and smooth as potatoes and should be packed away in moist sand and wintered at a temperature of from 50° to 60°, the same as any other tubers or bulbs, except that they should not be allowed to become so dry.

GEO. B. MOULDER.

Standard Mignonette.

The culture of mignonette in pots is by no means difficult. For standards the stronger growing varieties, such as Machet and Pyramidalis, are particularly well adapted. The seed is sown in fall, about September, in sandy loam. The seedlings are pricked off as soon as possible in thumb pots, in which they are carried over winter in a light, cool house, close to the glass. In spring the plants are repotted, using a rich sandy soil and providing good drainage. The watering during winter should be done very cautiously. All side shoots are removed and the plants tied to stakes to avoid their growing crooked. As soon as the plants have attained the desired height the top is pinched out and all flowers which appear prematurely are removed. An application of liquid cow manure twice a week is necessary to their luxuriant development.—*Moller's Deutsche Gartner-Zeitung.*

GALVESTON, TEX.—Otto Fehrlin opened a retail store in the Y. M. C. A. building.

New York.

EXCESSIVE OVERSTOCK IN FLOWER MARKET.—LOW WHOLESALE RETURNS.—RETAIL BUSINESS FAIRLY ACTIVE.—THE GREEK'S OPPORTUNITY.—FASTIDIOUS BUYERS.—AUCTION SALES.—KENTIAS BEGIN TO SELL WELL.—VARIOUS LOCAL ANNOUNCEMENTS.

The wholesale district is distracted with roses, chrysanthemums, discontent and express wagons. The big ice boxes are fairly bursting with roses, the chrysanthemums stand in long ranks on the counters and impede the passage way, the discontent clings in big chunks to the features of flower growers and commission men and the express wagons are heaped high with more stock and more agony to add to the daily accumulation. That almost his entire cut of the past three days still reposes in the refrigerator does not deter the grower from making a requisition on the wholesaler for the returns from the sale of the same and the latter is at his wit's end to so balance himself between the insurmountable conditions and his desire to keep the grower on his list. The retail florists are incapable of using ten per cent of the present daily receipts and the Greek has an independent air which is intended to impress his audience with the fact that he is master of the situation. He turns the stock over in a contemptuous manner, pushes it aside and in an offhand condescending way asks "What you want?" Whatever figure may be quoted he jumps as though stuck with a knife. If offered to him for nothing he would jump just the same and insist that a horse and wagon be thrown in.

This is the third week of the annual disturbance that experience has taught us to expect about this time. Whether it is as bad or worse than previous years is of little consequence; it is bad enough and there is no practical remedy. The plants will persist in producing more flowers than the market calls for and the growers will persist in sending them to market, so there is nothing to be done but wait as patiently as possible for the turn that will come some time. At such times it is hard lines for everything except the extra fancy selection in all varieties of flowers. A trace of mildew will dump an otherwise four-dollar-a-hundred rose into the two-dollar-a-thousand class in a fraction of a second and if a chrysanthemum cannot trot in the thirty-cent class down it goes into the two-cent mass. A few exhibition blooms, superb in every point, are coming in and these are the flowers that bring a price—large as compared with average results, but small as compared with figures on such goods two or three seasons back and surely unremunerative to the grower whose skill and time have been taxed to produce these splendid flowers. But the retailers seem very well satisfied with their fall business.

The auction rooms down town have been well patronized during the week. At Cleary's kentias realized good prices for the first time this season and other things went satisfactorily, as a rule. The sale of orchids for Sander last week disclosed a big demand for Dendrobium formosum giganteum and cattleyas brought fairly good figures. Cypripediums alone seemed to lack friends and went very slowly. Next Tuesday Cleary sells for the big Philadelphia plant growers and a big crowd will be there.

The New York Gardeners' Society met last Saturday and arranged to hold a free exhibition at 64 Madison avenue on Saturday, November 19. The schedule provides for about twenty classes.

John I. Raynor has just finished a new and capacious refrigerator. He will need every inch of it under present conditions.

Mr. Dihm, who has been manager of Siebrecht & Son s nursery at Trinidad, is in the city for a brief stay.

This week *American Gardening* was sold to J. W. Withers, who will publish it hereafter at 136 Liberty street. Leonard Barron will continue as editor.

Chicago.

MARKET CONDITIONS.—FLORISTS' CLUB ELECTS OFFICERS.—PLANS FOR THE FALL SHOW.—SPECIAL PRIZES.—SHIPPERS ATTACK EXPRESS COMPANIES.—DOINGS IN THE TRADE.

At the beginning of this week there was a decided scarcity of carnations, but in the past three days the supply has increased until it is equal to the demand. Chrysanthemums are coming in faster every day and are more plentiful than orders, so that prices are lower than last year. As a rule the blooms are very good. Roses are very plentiful and much of the stock sells for a song if, indeed, it is sold at all. Good flowers are, however, very scarce and command good prices. Violets are in very short supply.

On Friday the supply of American Beauty and other roses decreased materially and prices took a sharp advance.

At the last meeting of the Florists' Club the following officers were elected: President, Edgar Sanders; vice-president, C. W. Johnson; recording secretary, C. W. McKellar; financial secretary, John Degnan; treasurer, W. W. Barnard; executive committee John Zech, Charles Held, John Reardon, Joseph Reeve and W. L. Palinsky. The club voted to offer $50 in special premiums at the show and the executive committee was instructed to arrange for the annual banquet during show week.

Plans are progressing most satisfactorily and President W. H. Chadwick, of the Chicago Horticultural Society, is anticipating the most successful chrysanthemum show on record. Many special features are being planned, which, coupled with the admirable location, will attract an increased attendance. Superintendent W. N. Rudd has announced the selection of the following judges for the exhibition: A. Herrington, Madison, N. J., superintendent of the estate of H. McK. Twombly; John F. Cowell, Buffalo, curator of the Botanic Garden, and Emil Buettner, Park Ridge, Ill.

Two of the special prizes for the flower show which should occasion extensive competition are those of $25 each by C. W. Marx and Bassett & Washburn. The former is for the best six varieties of carnations, one dozen blooms of each, which permits every grower to compete, and the latter is for the best arranged basket, regardless of size, which affords an opportunity for every retailer to show his most artistic work.

Heavy shippers on South Water street have combined to bring action in the Superior Court to compel the express companies to pay for the stamps which the war revenue law requires upon all receipts for shipments. Their success will be a considerable saving to wholesale florists, who are now paying the tax under protest.

The Grand Rapids Florists' Club has voted to visit Chicago during the chrysanthemum show and expects to bring a goodly delegation.

Messrs. Prince and Bassett & Washburn receive their morning consignments of stock from their greenhouses upon the train which arrives on the Burlington at 7:46 and the cut is now so heavy that these two bring in nearly half a carload daily.

A new flower stand has been opened in the Mrs. Clark restaurant building at 153 Wabash avenue. R. H. Hardy is the proprietor and Tom Rogers manager.

J. Austin Shaw will soon return to 114 Wabash avenue with another stock of palms.

At the Florists' Club meeting on November 4 the topic will be "Are our Flower Shows a Benefit to the Trade?" The discussion will be opened by J. T. Anthony.

Mrs. Andrew McAdams is quite ill with pleurisy and will be taken away to recuperate as soon as she is able to travel.

Reinberg Bros. have begun taking their rose cuttings and other growers will enter upon this work next week.

The Illinois Cut Flower Company has issued a neat hanging card in two colors giving the dates of the principal chrysanthemum shows.

E. H. Hunt has been confined to his home this week.

O. P. Bassett is at West Baden, Ind.

Boston.

BUSINESS QUITE SLOW.—CHRYSANTHEMUMS CHEAP.—FINE ORCHIDS.—NIVEA IS ALL RIGHT.—CUCUMBERS AFTER CHRYSANTHEMUMS.—LOCAL ENTERPRISE.

But little change in market conditions is noted since last week's report. Chrysanthemums are increasing in number daily and a corresponding advance in quality is also made. Prices, however, tend downwards, very few flowers bringing creditable returns and it is impossible to see where any profit on fancy blooms comes in. Roses are still over-stocked; carnations also; violets are arriving in increasing quantity and lily of the valley is barely holding its own. Outside of the above quoted staples there is practically nothing offered in cut flower stock, but with chrysanthemums so cheap it costs but little to make the window showy and attractive and the retailers have no just cause for complaint.

At Horticultural Hall on October 22, J. E. Rothwell showed a finely bloomed plant of Cattleya labiata var. ardens. Cattleya labiata var. Lucibilis from Oakes Ames was greatly admired for its noble flowers which measured nine inches from tip to tip of petals. Mr. Ames also showed Cypripedium Curtisii var. viride.

Nivea carnation is now coming in satisfactory shape to Welch Bros. and gives promise of holding the same position the coming winter that it did last year as a white of the first rank.

J. D. Twombly will fill his large house with cucumbers after the chrysanthemums are cut. These give better returns than any flowers when they are successful but they are somewhat uncertain.

Horticultural Hall is a storm center this season owing to the sharp rivalry of three floral establishments conducted by enterprising young Hebrews on Bosworth street and Chapman place.

The removal of the counters from the front part of W. E. Doyle's Tremont street store is a great improvement. The modern flower store has no need for counters.

Hydrangeas in the gardens have never been so finely colored as they are this year. The flower heads are now a rich dark red although most of the foliage has fallen.

THE AMERICAN FLORIST

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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THE premium list for the chrysanthemum exhibition of the Newport Horticultural Society can be had by addressing the secretary, J. J. Butler.

EDMUND M. WOOD has issued invitations to an exhibition of chrysanthemums in bloom at Waban Rose Conservatories, Natick, Mass., Thursday, November 3.

IN the advertisement of Clucas & Boddington, New York, published October 15, in the line "Choice Lilium Harrisii, 7-9 bulbs, $12 per case of 400 bulbs," 5-7 was intended.

C. B. KNICKMAN and bride, of New York, were registered at Meriden, Conn., last week. Another recent addition to the benedicts is Louis Schmutz, Jr., of Flatbush, so they say.

THANKS to substantial insurance, many of those growers who recently suffered from fire have been enabled to keep right on with business. It is always an advantage to be on the safe side—your place may burn to-night.

THE former business of Thos. S. Ware, at the Hale Farm Nurseries, London, Eng., has, after a series of changes, passed into the hands of J. H. Osborne, to be carried on as heretofore under the style of Thomas S. Ware, Ltd.

SANDER & Co. have named a new cypripedium seedling after Prof. Wm. Trelease, of the Shaw Gardens at St. Louis. This is a Rothschildsianum cross bearing three or four individual blooms on a stem, the flowers being of the largest size. It is said that this unique plant is coming to America.

We have received an excellent collection of colored plates of Japanese maples, so brilliant and varied in foliage, from Messrs. Suzuki & Iida, of Yokohoma, Japan, and 11 Broadway, New York. Thirty-seven varieties are represented, and two of the plates show the effect of several varieties grafted on a common stock.

WE are in receipt of the revised list of premiums offered by the Horticultural Society of Chicago for competition at the annual fall exhibition to be held November 8, 9, 10, 11 and 12. This society offers a larger amount in prizes for its chrysanthemum show than any other society in the country. A large number of interesting exhibits should be brought out by the "International Competition," in which a prize of $6 is offered for the best twelve blooms, in twelve varieties, grown in each state and territory, also British Columbia, Manitoba, New Brunswick, Nova Scotia, Ontario and Quebec, with a grand prize of $50 for the best exhibit in the international series. Copies of the prize list with full particulars, may be had on application to the assistant secretary, Room 202, at 183 Dearborn street, Chicago.

Catalogues and Cut Flower Price Lists Received.

A. G. Prince & Co., Chicago, Ill., florists' requisites, cut flowers; L. E. Archias & Bro., Carthage, Mo., bulbs, plants and seeds; Wm. Scott, Buffalo, N. Y., palms and ferns; W. K. Nelson, Augusta, Ga., roses; Richmond Stove Co., Norwich, Conn., boilers; Stecher Lithographic Co., Rochester, N. Y., lithographic plates; Japanese Tree Importing Co., Kobe, Japan, trees; Roustan Servian & Co., St. Remy-de-Provence, France, seeds; Soupert & Notting, Luxembourg (Grand-Duchy), roses; W. A. McFadden, Cincinnati, Ohio, cut flowers; Cincinnati Cut Flower Co., Cincinnati, Ohio, cut flowers; Louisville Florists' Supply & Exchange, Louisville, Ky., cut flowers.

Greenhouse Building.

Greenfield, Ind.—Jacob Forest, two houses.

Grand Rapids, Mich.—Mulick Bros., carnation house 16x100, violet house 12x100.

Westboro, Mass.—Alfred H. Brown, one commercial house.

Lowell, Mass.—Harvey B. Greene, three commercial houses.

Montpelier, Vt.—E. Jacobson, one commercial house.

Philadelphia, Pa.—Wm. Arner, one conservatory.

West Gouldsboro, Me.—S. L. Kingsley, one forcing house.

Newburyport, Mass.—J. J. Conley, one house 20x150.

Abington, Mass.—A. E. Blanchard, one house 25x100.

Rockland, Mass.—W. B. Arnold, one violet house 12x60.

COHASSETT, MASS.—The South Shore gardeners held their annual concert and ball in the town hall on the evening of October 20. Many guests from Hingham, Scituate, Weymouth and Hull were present.

Colonial Postage.

The postal authorities inform us that no changes have yet been made in the postage rates to Hawaii. It should be remembered, however, that parcels of merchandise not exceeding a combined length and girth of six feet, and eleven pounds in weight, may be mailed to this island at the rate of twelve cents per pound, also to the Bahamas, Barbados, Columbia, Costa Rica, Danish West Indies, British Honduras, Jamaica, Leeward Islands, Mexico, Salvador, British Guiana, Windward Island, Newfoundland and the Republic of Honduras. Rates to Cuba and the Philippines remain the same as heretofore, except in the case of soldiers and sailors in the United States service, where domestic rates obtain.

A Friend to Horticulture.

Although the columns of the AMERICAN FLORIST are not intended for political literature, yet it seems to me that it might not be out of place to mention that Senator Wm. D. Daly, of New Jersey, who was mainly instrumental in stopping the passage of the Skirm Plant Inspection bill in its original form, and who subsequently took the fight upon his shoulders on behalf of the amendment exempting florists' stock, is now a candidate in Hudson county for Congress, and the florists of that county might have a grateful rememberance of his efforts in their behalf. There is little doubt that a national bill will be offered and we want all the influence we can get in Congress to fight it, therefore Senator Daly could be of service to the florists if elected to Congress. Yours very truly,

PATRICK O'MARA,
Chairman Legislative Com. S. A. F.

Coming Exhibitions.

[*Secretaries are requested to supply any omissions from this list.*]

BOSTON, Nov. 8-11. Chrysanthemum show, Massachusetts Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

BROCKTON, MASS., Nov. 16-18. Chrysanthemum show, Florists' and Gardeners' Club. Walter E. Baker, Sec'y.

BUFFALO, N. Y., Nov. 9-11.—Chrysanthemum show, Buffalo Florists' Club. Wm. Legg, Sec'y, 1440 Delaware Ave.

CHICAGO, Nov. 8-12. Chrysanthemum show, Hort. Society of Chicago. Willis N. Rudd, Ass't Sec'y, Room 202, 185 Dearborn St.

ELMIRA, N. Y., Nov. 15-16. Chrysanthemum show, Elmira Hort. Society. R. R. Stockdale, Sec'y.

EVANSVILLE, IND., Nov. 8-12. Chrysanthemum show, Evansville Press Club.

GERMANTOWN, PA., Nov. 7. Autumn exhibition, Germantown Hort. Society.

HARTFORD, CONN., Nov. 8-10. Chrysanthemum show, Connecticut Hort. Society. C. M. Rodgers, Sec'y, Beacon St., Hartford.

INDIANAPOLIS, Nov. 8-12. Chrysanthemum show, State Florists' Association of Indiana. R. A. McKeand, Sec'y, Garfield Park, Indianapolis, Ind.

MILLBROOK, N. Y., Nov. 10-12. Chrysanthemum show. Milbrook Hort. Society. J. O. Pingry, Sec'y.

MORRISTOWN, N. J., Nov. 1-2. Annual Exhibition, Morris County Gardeners' and Florists' Society. C. H. Atkins, Sec'y, Madison, N. J.

MT. KISCO, N. Y., Nov. 10-12. Chrysanthemum show, Bedford Floral Club.

NEW BEDFORD, MASS., Nov. 3-5. Annual exhibition New Bedford Gardeners' and Florists' Club. Peter Murray, Sec'y, Box 104 Fairhaven, Mass.

NEWPORT, R. I., Nov, 15-17. Chrysanthemum show, Newport Hort. Society. J. J. Butler, Sec'y, P. O. Box 213.

PHILADELPHIA, Nov. 8-12. Annual exhibition, Pennsylvania Hort. Society, David Rust, Sec'y, Horticultural Hall, Broad St. below Locust.

PORTCHESTER, N. Y., Nov, 11-12. Annual chrysanthemum show, Westchester Gardeners' Association.

POUGHKEEPSIE, N. Y., Nov. 2-4. Chrysanthemum show, Duchess County Hort. Society. Arthur A. Loughren, Sec'y.

PROVIDENCE, R. I., Nov. 9-11. Chrysanthemum show, Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St., room 23.

ST. LOUIS, Nov. 8-12. Chrysanthemum show, St. Louis Florists' Club. Emil Schray, Sec'y, 4101 Pennsylvania Ave.

SYRACUSE, N. Y., Nov. 10-12. Chrysanthemum show, Central New York Hort. Society. D. Campbell, Sec'y.

TORONTO, Nov. 9-12. Chrysanthemum show, Toronto Gardeners' and Florists' Association. E. H. Carter, Sec'y, Riverside Park, Toronto.

WACO, TEXAS, Nov. 10-12. Chrysanthemum show, Texas State Floral Society. Mrs. Louis Crow, Sec'y, Waco, Texas.

WORCESTER, MASS., Nov. 8-9. Chrysanthemum show, Worcester, County Hort. Society. Adin A Hixon, Sec'y, Horticultural Hall, 18 Front St.

Philadelphia.

PROBLEMS CONFRONTING QUAKER CITY DEALERS.—A DEPARTMENT STORE PLAN.—WANAMAKER MAY SELL FLOWERS.—CHRYSANTHEMUM COMMENT.—JUBILEE MATTERS.

Flowers of all kinds are most plentiful and thankful should be the man who has large orders, for he can get all the stock he wants at most reasonable figures. The general opinion of the growers is that flowers are not bringing near the prices they did at this time last year, the general average being fully twenty-five per cent lower. This is a very serious decline and no one seems to know how to account for it as but little additional glass has been added since last season.

Robt. Scott & Son are sending in some very fine Kaiserins and Carnots. They seem to know how to handle grafted stock and cannot understand how the average grower can fail with such plants. They are handling some fine chrysanthemums and were the first in with Mrs.

Robinson. Chrysanthemums are now quite plentiful; in fact some varieties are hard to sell even at low figures. The varieties in since last week are Mrs. Robinson, Ada Spaulding, Mrs. Whilldin and Florence Harris, W. K. Harris' new yellow. It is a very fine incurved, the outer petals being rather stiff and straight with elkshorn ends. It is one of the largest and best of the early yellows.

Carnations are very plentiful and some quite fair stock is to be seen. Choice Flora Hills and Victors bring $1.50, but the general average must range away below $1 judging from the quantities that are left for the street gentry. The quantities of surplus stock, that not handled by regular stores or left over after their calls are filled, seems to be constantly increasing. Quite a number of the Greek fraternity, cousins of the New York and Brooklyn tribe, are becoming familiar and their brass and silver plated showcases kept constantly filled with good stock are located at prominent places in the shopping districts; they appear to handle a great many flowers and do things in a business like way. Their success has set the boys to thinking and some of the smaller dealers, men who conduct their business with the help of only one man or boy, talk of clubbing or going in together in renting a good sized store on Chestnut street and managing it on the department store plan, each one having a division of the business to attend to. They think that by running such a store on the popular price order they could build up a fine business in all branches of the trade and meet the department store competition, which threatens to become serious.

It is rumored, and we have it on good authority, that the opening of a complete floral department is under serious consideration by John Wanamaker. If such is established it is to be thorough in every way. Competent help will be employed and nothing left undone to make it first-class. Their efforts in this direction have heretofore been of a spasmodic nature, on the order of plant bargain sales, and loose cut flowers have been sold in the spring of the year. If this department is established the effect on the business will be watched with interest.

E. A. Seidewitz and Wm. Paul Binder, of Baltimore, were in town last week.

The great peace jubilee the past week, while giving a few of the trade some good orders, did not create any general demand for flowers and was a great disappointment to many in this respect. A violent rain storm postponing the first day's parade and drenching the miles and miles of reviewing stands on Broad street placed a damper on the affair and took the color out of the cheap bunting decorations so that they presented a very sorry appearance. Graham had some extensive plant decorations and Battles had the flowers for the tables at a banquet given to the president. K.

Pittsburg.

BUSINESS IMPROVES.— PRICES.— RASPBERRIES IN LATE OCTOBER.—JOTTINGS.

Business this week shows a slight improvement. Wholesale prices are at present, for carnations $1 to $2 per 100, roses $2 to $6 per 100, Beauties 10 cents to 25 cents each, chrysanthemums, $3 to $8 per 100, selected, $1.50 to $2 per dozen.

A novelty was on exhibition the first of the week at the stand of Gustave Ludwig, consisting of branches of a new raspberry with fine ripe red fruit. They were grown by Peter Decker, on his place at Perrysville. He sold to the leading hotels fifty quarts of the berries at 35 cents and will have in market about as many more the latter part of this week. Mr. Ludwig reports business fair. On Thursday he had a very extensive decoration at the Monongahela House on the occasion of the Presbyterian reunion. At the banquet there were thirty-four tables at which chrysanthemums were the principal flower used.

Elliott & Ulam report business improving somewhat since conclave week.

The value of good surroundings was never better shown than in the appearance of the new stand of E. C. Ludwig.

W. F. Kasting, of Buffalo, was a recent visitor. REGIA.

Grand Rapids.

CLUB RESUMES ITS SEASON WITH AN INTERESTING DISCUSSION.—MAY IMPORT GLASS.—PLAN A TRIP TO CHICAGO.—CROP CONDITIONS.

The Florists' Club held its first meeting of the fall season on October 18 and it proved to be a very interesting session. The price of glass was the principal subject under discussion, none of the members being able to comprehend a logical reason for the doubling of the price of this very necessary article within the past year. Several think that glass can be imported from Belgium at a saving. Geo. F. Crabb, of Crabb & Hunter, was instructed to investigate the feasibility of a club importation.

The club voted to attend the Chicago chrysanthemum show in a body and Henry Smith, James Schols and Eli Cross were designated to make the arrangements. A large number will doubtless participate in the excursion.

It was the consensus of opinion that the carnation crop will be the best on record here and that chrysanthemums are both good and plentiful. The crop will come on rapidly now.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By first-class fireman and steamfitter. Address Y N, care Am. Florist.

SITUATION WANTED—By experienced palm and fern grower; single. Good references. A. E DESERABLE, Glenside, Montg Co., Pa.

SITUATION WANTED—By all-round workman on or before Dec. 1st. Good fireman, propagator, etc. Address N Y, care American Florist.

SITUATION WANTED—By an experienced greenhouse fireman; night preferred Good references. Address FIREMAN, Box 259, Pleasant Hill, Mo.

SITUATION WANTED—By English gardener, private or otherwise; age 32; thoroughly experienced in all branches of the profession. H H H, care American Florist.

SITUATION WANTED—By young man, age 27, as assistant; have had several years' experience in general greenhouse work; sober and reliable. References. Address W B, care Am Florist.

SITUATION WANTED—By practical florist of 15 years' experience; German; good cut flower grower, pot plants in general; also all-round man, sober and reliable. B S A, Standish, Kans.

SITUATION WANTED—By first-class grower of cut flowers and plants with 20 years' experience; single. Fair wages expected. K K, care H. Kuehlke Kansas City, Westport, Mo.

SITUATION WANTED—As florist or gardener; first-class grower of cut flowers and vegetables under glass. Best of references. Married, no children. State terms and wages paid. Address No. 1 care American Florist.

SITUATION WANTED—By good all-round man, 12 years' experience. Can manage small place or store, am a good flower worker; strictly sober, reliable and of good habits. Address LOCK BOX 245, Union City, Pa.

SITUATION WANTED—A young man, 21 years of age, desires position in cut flower store or greenhouses; 7 years' experience in both; desires work in or near Phila. Best of references. H C H, care American Florist.

SITUATION WANTED—By a German expert gardener, 2 years in this country. Permanent position at reasonable wages. Married; especially familiar with greenhouse and nursery work. Address P. REITH, Glard, Clayton Co., Ia.

SITUATON WANTED—By a young man 20 years old English; would like a position with a good rose or carnation grower in the east. Willing to work Have had 2½ years' experience HERBERT FLETCHER, Concord, N. H.

SITUATION WANTED—Private place, by a life-long florist and gardener; speaks, writes and reads German and English; 36 years, single, do not use liquor, quiet disposition. Open after Nov 15th; steady place only. Best Refs. M D A, care Am. Florist.

WANTED—An offer to buy or lease six greenhouses; a fine chance for a practical florist. 4, H, 44, care American Florist.

WANTED—An offer to buy or rent greenhouses in a good city of 60,000 inhabitants. A good chance for the right man Address J K, care Am Florist.

WANTED—A young man with some experience as grower of plants and in designing, with some capital to take a half interest in greenhouse and garden. For further particulars address BOX 432, McConnellsville, Ohio.

FOR SALE—At a bargain, 2000 square feet of 12x14 greenhouse glass. Address FLORIST, Butte, Mont.

FOR SALE CHEAP—Three greenhouses, four lots and stock in the best and liveliest city in America unincumbered. Apply 558 South 1st St., Cripple Creek, Colo.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

FOR SALE—One No. 17 Hitchings greenhouse hot water boiler, second-hand, price $60. One No 24 Tobasco hot water boiler, used only four months, price $38. Address GEORGE M. WITWER, South Bend, Ind.

FOR RENT—Two greenhouses, about 5000 feet glass, a good retail stand in city of Asheville, N. C.; also dwelling house if desired. Fine opportunity for a good tenant. Address REV. H. M. PARKER, James Island, S. C.

FOR SALE—A splendid opportunity to purchase a well established business of 10,000 sq. ft. of glass, well stocked and in good condition. In center of city of 18,000 population. Must be sold soon and will not rent. Will sell at a sacrifice. Address BUSINESS, care American Florist.

FOR SALE—On account of age and poor health, three greenhouses, each 20x165, two filled with Beauty, Bride, Bridesmaid and Perle roses, planted in July, and in excellent condition; the other is filled with carnations and chrysanthemums, also fine; one frame 6x75 of pansies; one 6x140 of Marie Louise violets; 350 azaleas in 6 and 8-inch pots; one large lotus pond, filled; 10 others; one never failing well of water; good boiler, pump and tank; good houses; three acres good land; good stable and wagon shed. The best place around Harrisburg or in the county. For terms, address T. J. WINTERS, 943 North 7th St., Long Distance 'Phone 2454. Harrisburg, Pa.

FOR SALE.

A well established and paying florist's business, with 10 to 30 acres of land, 17,000 square feet of glass. Good residence and houses for help. Situated near one of the largest cities in California. Ill health and desire to retire from business cause for selling. For full particulars address LOCK BOX 720, Los Angeles, Cal.

FOR SALE.

A florist establishment for sale consisting of 13,000 square feet of glass, in good condition. Heated by steam; in the city limits, located in a city of 18,000 inhabitants on the Mississippi river in Iowa, with several acres of land and dwelling house. Must sell soon on account of old age. For further particulars address IOWA, care American Florist.

FOR SALE.

Greenhouse business in Illinois city of 15,000 population, 120 miles from Chicago; practically no competition. Reason for selling, poor health. Address. W H G. care American Florist.

If you write to any advertiser anywhere mention the paper in which you saw the ad. Both publisher and advertiser will like you better for it.

A NEW PLACE TO BUY YOUR WIRE WORK

Finding it necessary to go into the manufacture of wire work on account of the numerous calls for same, I take pleasure in announcing that it is my aim to make this new departure a success. To do this I have reduced prices wherever possible, and will cheerfully prove to the trade that my prices and workmanship cannot be duplicated any where. As a special inducement to introduce my work I will give a special discount on all orders sent to me by November 10, 1898.

On Orders of $50.00 30 per cent. off.
On Orders of 25.00 25 " "
On Orders of 10.00 20 " "
On Orders of 5.00 15 " "

Write for my price list. Just out.

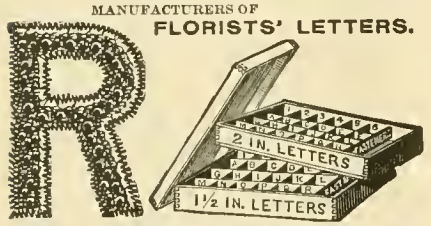
F. J. FOSTER,

Wholesale Florist, 109 North 11th St, ST. LOUIS, MO.

L. D. 'PHONES { BELL MAIN 1851 A. / KINLOCK C 610.

Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.
Script Letters, $1 Fastener with each letter or word.
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

THE WABASH R. R COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A.,
387 Broadway, New York City,
J. D. McBEATH, N. E. P. A.,
5 State Street, Boston, Mass.
C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

THIS IMPRINT ON AN ENGRAVING

MANZ
CHICAGO

IS A GUARANTEE OF SATISFACTORY QUALITY.....

Manz makes illustrations for this paper.

MÖLLER'S
Deutsche Gärtner-Zeitung

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription $3.00 per annum, including postage. Sample copies free.

Ludwig Möller-Erfurt. (GERMANY)

Pittsburg Cut Flower Co. Limited

705 Penn Avenue, PITTSBURG, PA.

CHRYSANTHEMUMS.
LILY OF THE VALLEY.
CARNATIONS.
ROSES.
} Extra Fancy Stock.

Wholesale Florists.

Mention American Florist.

ESTABLISHED 1866 **EMIL STEFFENS** SUCC.TO N. STEFFENS. AND STEFFENS BROS.

MANUFACTURER OF FLORISTS' WIRE DESIGNS & SUPPLIES

335 EAST 21st ST. NEW YORK CITY.

Have you received our NEW CATALOGUE of FLORISTS' SUPPLIES WIRE WORK, etc.? If not, drop us a postal and same will be mailed to you. Please inspect it before buying elsewhere.

HOLTON & HUNKEL CO.

Wholesale Commission Florists.
DEALERS IN
FLORISTS' SUPPLIES, PLANTS, BULBS, ETC.

Manufacturers of WIRE DESIGNS. P. O. BOX 103. MILWAUKEE, WIS.

Wholesale Flower Markets

CINCINNATI, Oct. 27.

Roses, Beauties, select	15 00@20.00
" " medium	10 00@12 50
" Brides	2 00@ 4.00
" Bridesmaids	2 00@ 3 00
" Meteors	3.00@ 4.00
" Perles	2 00@ 3 00
Carnations	1 00@1 50
Lily of the valley	4 00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00
Chrysanthemums	8.00@15.00

ST. LOUIS, Oct. 27.

Roses, Beauties	3 00@20 00
" Meteors	2.00@ 4.00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	1.00@ 3.00
" Kaiserins	2.00@ 5.00
Carnations	1.00@ 2 00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Chrysanthemums	5.00@20.00
Violets, California	.50
" single	.25

MILWAUKEE, Oct. 27.

Roses, Beauties, long.. per doz.	1.50@2 00
" medium " "	1 00@1 25
" short " "	.75@1 00
" Brides, Bridesmaids	3 00@ 4.00
" Perles	3 00@ 4.00
" Meteors, Kaserina	3.00@ 5 00
Carnations	.75@ 2.00
Gladioli	2.00@ 3.00
Smilax	12 50
Adiantum	.75
Asparagus	50.00

LOUISVILLE, Oct. 27.

Roses, Beauties, per dozen	.75@2.00
" Brides, Bridesmaids	2.00@ 4.00
" Meteors	2.00@ 4.00
" Kaiserins	2.00@ 4 00
" Perles	1.50@ 3 00
Carnations, fancy	1.50@ 2.00
" common	1.00
Violets	.50@ .75
Smilax, per dozen	1.25@ 2.00
Adiantum	.75@ 1.00
Asparagus, per string	.50
Chrysanthemums fancy per doz.	1 00@1 50
" com. " "	.77@1.00

HUSSA & CO.

CUSTOMS BROKERS AND FORWARDERS,

66 Beaver St., - NEW YORK.

ESTABLISHED 187

All customs matters attended to. Correspondence solicited.

THE Regan Printing House
NURSERY SEED FLORISTS **CATALOGUES**

87-91 Plymouth Place,
CHICAGO.

ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for the.....

"Horticultural Advertiser"

This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Address

EDITORS OF THE "H. A."
Chilwell Nurseries, - Notts, England.

It is good business policy to mention the

....AMERICAN FLORIST

when you write to an advertiser.

ILLINOIS CUT FLOWER CO.

J. B. DEAMUD

51-53 WABASH AVE.

CHICAGO

—o—

CHRYSANTHEMUMS We claim to have, and we have, the best and largest assortment in Chicago. If the other man cannot supply you call on us. Our list is made up of fancy show flowers as well as a good selection of first-class market sorts.

PRICE LIST Per 100

Brides, Bridesmaids, Meteors	$2 to $4.00
Perles	2 to 3.00
Kaiserin	3 to 5.00
Carnations	1 to 1.50
Carnations, fancy	2 to 3.00
Valley	4 to 5.00
Asparagus, per string, 50c	
Smilax	10 to 12.50
Violets	60c to 75c
Common Ferns, per 1000, 1.50	20c
Adiantum	75c to 1.00

P. & D. AT COST.

Reinberg Bros.

51 Wabash Ave, CHICAGO.

Wholesale Growers of **CUT FLOWERS**

Under 600,000 Feet of Glass.

We are Headquarters for **AMERICAN BEAUTIES** and can fill all orders on short notice.

WHOLESALE PRICE LIST.

	Per doz.
AM. BEAUTY, extra long stem	$3.50
" 24-in. stem	2.50
" 20 "	1.50
" 15 "	1.25
" 12 "	1.00
" 8 "	.75
METEOR, per 100	$3.00 to $4.00
BRIDESMAID "	3.00 to 4.00
BRIDE "	3.00 to 4.00
KAISERIN "	3.00 to 4.00
PERLE "	2.00 to 3.00
CARNATIONS "	1.00
" fancy "	1.50 to 2.00

All other stock at lowest market prices. No charge for packing.

E. C. AMLING

Wholesale Cut Flowers

51 Wabash Avenue,

W. S. HEFFRON, Mgr. CHICAGO.

WHOLESALE GROWER OF ROSES. DEALER IN CUT FLOWERS.

J. A. BUDLONG,

37-39 Randolph Street. CHICAGO, ILL.

Wholesale Flower Markets

CHICAGO, Oct. 28.

Roses, Beauties, extra long, per doz	3.50@4.00
" " 24 inch " "	2.50
" " 20 " " "	1.50@2.00
" " 15 " " "	1.25@1.50
" " 12 " " "	1.00
" " 8 " " "	.75
" Brides	2.00@ 4.00
" Kaiserins	3.00@ 5.00
" Bridesmaids	2.00@ 4.00
" Perles	2.00@ 3.00
" Meteors	2.00@ 4.00
Carnations	.75@ 1.00
" fancy	1.25@ 1.50
Lily of the valley	4.00@ 6.00
Adiantum	.50@ 1.00
Common ferns	20
Smilax	10.00@12.50
Asparagus	40.00@50.00
Violets	.60@ 1.25
Chrysanthemums	10.00@25.00

VAUGHAN, McKELLAR & WINTERSON,

Wholesale Florists,

45-47-49 Wabash Avenue, - - - CHICAGO.

CUT FLOWERS AND ALL FLORISTS' SUPPLIES.

Orders booked now for XMAS..... HOLLY and BOUQUET GREEN.

See our Adv. of **CYCLAMEN PLANTS** elsewhere in this paper.

Mention this paper.

S. B. WINTER,

(Successor to WINTER & GLOVER,)

21 Randolph St., Chicago.

HIGH GRADE **CUT FLOWERS,**

PACKED RIGHT,

so they will reach you in just as good condition as they reach us.

WIRE DESIGNS: A Full Line. Write us for our Illustrated Catalogue.

...LOUISVILLE...

Florists' Supply and Exchange

Wholesale Florists and dealers in Florists' Supplies

Special facilities for shipping south. Unequalled returns for good stock. Open night and day.

520 W. Jefferson St., - LOUISVILLE, KY.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

WIETOR BROS.

SUCCESSORS TO ROGERS PARK FLORAL CO.

Wholesale Growers of **CUT FLOWERS**

51 WABASH AVENUE,

Headquarters For American Beauties. CHICAGO

KENNICOTT BROS. CO.

WHOLESALE CUT FLOWERS AND FLORISTS SUPPLIES.

WIRE WORK A SPECIALTY. 88 WABASH AVE. CHICAGO.

Bassett & Washburn

88 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

A. L. RANDALL

Wholesale Florist

Don't Forget that we are at 4 Washington St., Chicago.

Write for special quotations on large orders.

Lynch WHOLESALE FLORIST.

19-21 E. RANDOLPH ST. CHICAGO

A. G. PRINCE & CO.

Wholesale Cut Flowers

AND FLORISTS' SUPPLIES.

Agents for the Hinsdale Rose Co. Special attention paid to shipping orders.

88 & 90 Wabash Avenue,

Telephone Main 3208. CHICAGO.

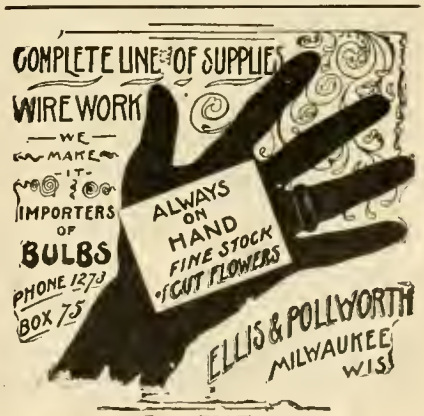
CINCINNATI CUT FLOWER CO.

SUCCESSORS TO H. L. SUNDERBRUCH CO.

Wholesale Commission Florists

4th and Walnut Sts., CINCINNATI, OHIO.

Consignments Solicited. Special Attention Given to Shipping Orders.



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SUPPLY ORCHIDS EVERY DAY.

ONLY HOUSE IN NEW YORK HANDLING EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

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TELEPHONE 2778 38TH STREET.

Decker, Blauvelt Co.

• WHOLESALE FLORISTS •

42 West 28th Street, NEW YORK.

CONSIGNMENTS SOLICITED.....
Shipping orders will receive prompt and careful attention.

Top Grade BEAUTIES, BRIDES, BRIDESMAIDS.

Extra Carnations.

JOHN I. RAYNOR, 49 West 28th Street, NEW YORK.

WALTER F. SHERIDAN,

WHOLESALE **FLORIST**

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Roses shipped to all points. Price List on application.

Asparagus Plumosus Nanus!

STRINGS 10 FEET LONG, 50 CENTS.

W. H. ELLIOTT, = = = Brighton, Mass.

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CUT FLOWERS,
WHOLESALE COMMISSION,
408 E. 34th Street,
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JOHN YOUNG,
ROSES, CARNATIONS, VALLEY
and all other choice cut flower stock.
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Price list on application.

ROSES LILIES
JULIUS LANG
53 WEST 30th STREET
NEW YORK
CARNATIONS SMILAX

Choice Carnations Choice Roses

Traendly & Schenck
NEW YORK CITY
38 W. 28th Street Cut Flower Exchange

Now They're Cheap!!
FLOWERS, ALL KINDS
PLENTY OF THEM AT
J. K. ALLEN'S 57 WEST 28th STREET, NEW YORK.
TELEPHONE 382 38th St.

J. J. PERKINS. ESTABLISHED 1872. R. POTTER.
J. J. PERKINS & CO.,
Wholesale and Commission
FLORISTS...
29 West 29th St., NEW YORK.

Wholesale Flower Markets

NEW YORK, Oct. 26.

Roses, Beauties	5.00@20 00
" Bridesmaids, Brides	.50@ 3 00
" Morgans Perles	.50@ 2 00
" Niphetos, Cusins	.50@ 1 00
Carnations	35@ .75
Lily of the valley	2 00@ 3.00
Smilax	8 00@15 00
Asparagus	35.00@50 00
Cattleyas	20 00@30 00
Adiantum	.50@ .75
Violets	50@ 1 00
Chrysanthemums	2.00@ 5.00
" fancy	20.00@30.00

BUFFALO, Oct. 27.

Roses, Beauties	5.00@20 00
" Brides, Bridesmaids	2.00@ 6.00
" Meteors	2.00@ 6.00
" Perles, Niphetos	2.00@ 4 00
" Kaiserins	3.00@ 6.00
Carnations, ordinary	.50@ 1.00
" fancies	1.00@ 2.00
Lily of the valley	4 00@ 5.00
Smilax	10 00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	.50@ 1.00
Chrysanthemums	10.00@20.00

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.
WM. F. KASTING WHOLESALE COMMISSION FLORIST....
495 Washington St., Buffalo, N. Y.
Also Dealer in Florists' Supplies and Wire Designs

A Catalogue For You
Low prices on first-class Fall goods.
Address
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THOS. YOUNG, JR.
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43 West 28th Street, New York.

THE NEW YORK CUT FLOWER CO.
119 and 121 West 23d Street,
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Telephone 733—18th. NEW YORK.
CONSIGNMENTS SOLICITED.
Special Attention Given to Shipping Orders.

M. A. HART,
Commission DEALER IN Cut Flowers,
44 WEST 29TH STREET,
NEW YORK CITY.
THE BEST MARKET IN NEW YORK.
'Phone 1307 38th St.

Ford Bros...
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111 West 30th Street, NEW YORK.
Consignments Solicited. Telephone, 260 38th St.

EDWARD C. HORAN,
34 W. 29TH STREET,
NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country.
Price List on application.

JAMES M. KING
Commission Dealer in
CUT FLOWERS.
Good Money for your Flowers.
Good Flowers for your Money.
49 WEST 29TH ST., NEW YORK.
TELEPHONE 1675 38th St.

SAMUEL S. PENNOCK, WHOLESALE FLORIST,

.....FINE VALLEY AWAYS ON HAND. 612-14-16 Ludlow Street, PHILADELPHIA, PA

GEO. A. SUTHERLAND. BOSTON... FLOWERS

Wholesale Depot for all Florists' Supplies.

Price Lists mailed. 67 Bromfield St., BOSTON, MASS.

CITY HALL CUT FLOWER MARKET, 9 Chapman Place, 15 Province Street, BOSTON, MASS.

WELCH BROS., PROPRIETORS.

Consignments from regular growers assigned separate space in our market. We guarantee payment for all flowers sold. Sales reported weekly. Payments monthly, or oftener if required.

THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

Wholesale Florists, Always on Hand: CARNATIONS, BRIDESMAIDS, BRIDES. JOBBERS IN FLORISTS' SUPPLIES

N. F. McCarthy & Co.

FLORISTS' VASES.

Horticultural Auctioneers.

84 HAWLEY STREET, BOSTON.

GALVIN & CO.

Wholesale Florists

AND DEALERS IN ALL

FLORISTS' SUPPLIES,

4 Ordway Place, BOSTON, MASS.

Cut Flower Consignments Solicited. Best market.

N. Y. CUT FLOWER EXCHANGE

404-412 E. 34th St. Near Ferry.

Open for Cut Flower Sales at 6 o'clock Every Morning.....

DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.

JOHN DONALDSON, Secretary.

John Conley & Son,

Manufacturers of

TIN FOIL

2 AND 4 DOMINICK STREET,

New York.

BRILLIANT GREEN AND BRONZE

GALAX LEAVES,

For Decorating and all Florists' Designs.

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

HARDY CUT FERNS

WRITE FOR PRICES.



FANCY DAGGER

L. B. BRAGUE,

Oldest, largest and most reliable dealer in the U. S. Hinsdale, Mass.

Wholesale Flower Markets

PHILADELPHIA, Oct. 26.

Roses, Teas	2.00@ 4.00
" " extra	4 00@ 6 00
" Beauties, extra	12 50@16 00
" " firsts	6.00@ 8.00
" " seconds	4 00@ 6.00
Carnations	1 00@ 1.50
Lily of the valley	3 00@ 4 00
Asparagus strings	35 00@50.00
" Sprengerii per bunch .50@1.00	
Smilax	12.00@15.00
Violets, double	.35@ .50
Cosmos	.25@ .50
Chrysanthemums	12.00@16.00

BOSTON, Oct. 26.

Roses, Beauties	5.00@25.00
" Kaiserins	2.00@ 8 00
" Brides, Bridesmaids, Meteors	1 00@ 4.00
Carnations	.50@ 1.00
Lily of the valley	2.00@ 4.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1 00
Chrysanthemums	2.00@10.00
Violets	.40@ .50

C. A. KUEHN, Wholesale Florist,

1122 PINE STREET, ST. LOUIS, MO.

A complete line of Wire Designs.

ELLISON & TESSON,

Wholesale Shipping

FLORISTS

3134 Olive Street, St. LOUIS, MO.

HOME GROWN STOCK.

C. W. WORS

2740 Olive Street, ST. LOUIS, MO.

FLOWERS at WHOLESALE....

.....ROSES, and a full line.

Headquarters for the South West.....

ST. LOUIS CUT FLOWER CO.

Wholesale Florists,

H. G. BERNING

1620 Olive St. ST. LOUIS, MO.

IT IS GOOD BUSINESS POLICY TO MENTION THE AMERICAN FLORIST WHEN YOU WRITE TO AN ADVERTISER.

EDWARD REID,

Wholesale Florist,

1526 RANSTEAD STREET,

Long Distance 'Phone. PHILADELPHIA.

Dumont & Co.

WHOLESALE FLORISTS.

Carnations a Specialty

1305 Filbert Street, PHILADELPHIA.

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THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

R. H. SHUMWAY, of Rockford, Ill., is recovering from a painful dislocated ankle.

The New York Market Gardeners' Association has been incorporated. Capital $10,000; directors A. C. Nellis and two others.

MRS. J. E. NORTHRUP died October 22 at Minneapolis, aged 40 years. The funeral was held October 24. Four children survive. Mr. Northrup has the sincere sympathy of his many friends in the trade.

CHICAGO VISITORS: B. F. Brown, of the Brown Bag-Filling Machine Co., Fitchburg, Mass., who proceeded to La Crosse, Wis., October 22, whence he will return shortly to install one of his machines with S. F. Leonard, 143 Randolph street; Fred. H. Hunter, with the Cox Seed Co., San Francisco, Cal.; Eugene Schaettel, of Vilmorin-Andrieux & Co., Paris, France; Edwin M. Haven, of South Haven, Mich.; Alfred J. Brown, Grand Rapids; and H. M. Claire.

Government Seed Contract.

The *Evening Times* (Washington, D. C.) of Saturday, October 22, says:

The Secretary of Agriculture has let contracts for the putting up and packing of seeds to be distributed by the department, as has been done for many years past. Heretofore the department has been putting up the seeds, but congress recently provided that the work should be done by contract, and appropriations have since been made to meet the expense of the work. The appropriation recently made by congress amounted to $130,000. The contract is with A. C Nellis, of New York, who came to Washington and furnished bond yesterday. According to the requirements of the law the seed must be put up in this city, and Nellis has leased a building at the corner of Tenth and G streets northwest for that purpose.

The Abuse of Blue Lobelia.

How often is the effect of what would otherwise be a brilliant and tasteful garden entirely spoiled by one plant, and that a very pretty one in itself. A few years ago men of taste and perception protested loudly against the over use and wrong use of the Pyrethrum Golden Feather, which, save in springtime, is really a plant to be avoided rather than planted for ornament. Thanks, no doubt, to folks' eyes being opened, one sees comparatively little of this plant now, so I need say no more about it to-day; but the blue lobelia, the plant to which I now prefer the grievous charge of spoiling many a pretty garden, is so charming in itself, that its constant misuse demands a strong protest. It is not too much to affirm positively that in the hundreds of gardens, great and small, that I have seen lately, blue lobelia is used as an edging to three-quarters of the beds that are filled with summer bedding plants, and yet there is never a broad mass of rich blue to catch the eye and fill it with a sense of repose. Take even the London parks, where sometimes one sees what wonders really good taste can work, and yet, how often will you see a bed edged with blue lobelia, which not only "swears" generally with the flowers it surrounds, but invariably disturbs the eye where it touches the green grass. Modern milliners no doubt have been busily trying to persuade us that grass-green and a hard blue are fashionable as a combination, but they cannot convince us it is good taste and a thing to be admired. What a pity then it should be so constantly reproduced in our gardens. A really pale shade of blue is beautiful on grass, as the spring forget-me-nots show us, but the fully rich blue of lobelia next green grass, next red, or next yellow is atrocious, and yet how rarely it is otherwise used. Do let us stir up those who have eyes to see and tongues to talk, to protest against this misuse of blue lobelia, which is really at the root of the dislike to summer bedding, which is growing day by day on account of the carelessness and bad taste so often displayed by those who should know better. Nothing is more charming than a broad mass of blue when properly treated, but full rich blue absorbs so much light that it requires plenty of white, or still better, cream color to set it off. There are now plenty of dwarf white-flowered or creamy-foliaged plants suitable for edging blue lobelia, why not use them for an edging and put the blue inside? A rich orange or a tawny-brown flower, such as gazania or brown calceolaria, make most effective contrasts near blue when the latter is edged with a creamy-toned plant. Echeverias with their bright flowers left on are particularly suitable for edging lobelia; white and blue in mixture, or white grouped or dotted on blue is always admissible. What a relief to the eye would be a good mass of blue and white as a central object in small gardens, now vulgarized by a constant repetition of reds, yellows and blues! And what a satisfaction it would be if any one would just plant half his garden in the way I have indicated, and the other half in the usual blue-edged uniform. I feel sure the difference in beauty and brilliancy would be so great that another year I should have converted him from the error of his ways.—*E. H. W., in the Gardeners' Chronicle.*



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PERLES	2.00 to 3.00		SMILAX	10.00 to 12.00
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A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

COSHOCTON, O.—J. W. Almack has purchased from the assignee all the nursery stock of J. R. Johnson and will continue the business.

CAMDEN, N. J.—Cooper Park is undergoing a great improvement. Cement walks are being put in and hundreds of trees and shrubs are being planted.

ROCHESTER, N. Y.—In opening a gravel pit on its property the Green Nursery Company unearthed ten complete skeletons, presumably those of Indians.

MANCHESTER, PA.—E. B. Good has found in his nursery two burs of the Paragon chestnut each containing seven large chestnuts where ordinarily there are but three.

DODGEVILLE, WIS.—Thomas Elwood, proprietor of the Elwood Nurseries, has been sending some splendid grapes to market and reports this year's crop the best on record.

Late-flowering Tender Shrubs.

For sub-tropical bedding, isolated specimens on lawns, or for growing in tubs, there are quite a number of very ornamental tender shrubs which, while common in cultivation, that is, they are to be found in most collections of plants, yet they are not generally used for this purpose. Shortly after mid-summer the hardy shrubs, with very few exceptions, make, unless it be to the connoisseur, a very uninteresting display. At that time we usually see them with even the foliage past its best. Some of the undernoted plants, dotted here and there among the shrubs, will work wonders in imparting to an otherwise uninteresting border quite a gay appearance for several months. The majority of the plants herein recommended can be wintered over with little more care than is accorded such plants as the crape myrtle (Lagerstrœmia Indica) in the northern states.

Among the many species and varieties of hibiscus there are a number which are well adapted to this purpose. The Chinese species, H. rosa-Sinensis, has numerous forms, some single, others very double and very large, the colors ranging from red to pink and from dark buff to bright yellow. Their culture is very simple, allowing them to make their growth out of doors during the hot months and keeping them over in a cool house until the time arrives to place them in their summer quarters, or if found advisable, they can be given warmer winter quarters and during the early spring make growth which if carefully hardened off will flower much earlier in the season. When grown in tubs they do not require shifting often unless it be for the purpose of increasing the size of the plants; a top-dressing of rich soil annually and an occasional application of weak liquid manure during the period of growth will keep them in good flowering condition in the same receptacles for several years. Some of the best kinds are Brilliantissimum and Grandiflora, single reds; rubra fl. pl., double red; flava plena, double yellow; Callerii, buff. H. schizopetalus and H. Denisonii are evidently species; the former has long pendulous flowers with beautifully fringed petals, the latter a bright single pink bloom.

The propagation of these plants ought to be undertaken in the fall, selecting the ends of the ripe shoots. Those which are not over-robust are to be preferred as the wood is firmer and will emit roots with greater certainty. Put in three-inch pots when rooted and keep in an intermediate house till spring when they should get a good-sized shift, growing them to a single shoot till they are about eighteen inches high, when they can be stopped and allowed to branch. During their growth in this state the best place for them is out in the full sun with the pots plunged to the rims.

Hibiscus cisplatanus is a species seldom met with in good condition, owing to its being grown like the others, with cramped root room; it is best planted out in good rich soil and watered frequently as it is not an ever bloomer. In this latitude it consumes the greater part of the summer making a very profuse growth. During the first part of September it begins to show the flower buds, very commonly more than twelve in a corymb at the ends of the even, moderately sized branches. These buds as a rule expand one at a time, seldom more than two at a time, on each branch and the display they make while in bloom is a sight equalled by but few plants. The flowers are from four to five inches in diameter, light pink shaded dark at the margins with a dark spot at the base of each petal. The plants have the merit of setting seeds very freely, which, if sown as soon as ripe, will provide good sized plants by planting out time the following spring. It forms a very symmetrical bush three feet high and about four feet through in a single season. The accompanying illustration shows a two-year-old plant in bloom growing among other sub-tropical plants in the botanical garden here.

In the same family and closely allied to the hibiscus we have the old Malvaviscus coccineus with large soft bright green leaves and intense scarlet flowers very freely produced. Like the last named hibiscus it takes the greater part of the summer in making flowering growth, but the autumnal display of bloom is sufficient to make the plant a general favorite. This species needs a slightly warmer temperature in which to winter it over; if the plants are carefully lifted from the ground on the approach of frost they will continue in bloom the greater part of winter in a warm conservatory.

Tecoma Smithii is desirable both on account of its foliage and flowers. The leaves are pinnate, the flowers bright scarlet and larger than in the well known T. Capensis, which is said to be one of its parents, the plant under consideration being one of antipodal origin. Large sized plants give the greatest satisfaction as the flowers are but sparsely produced on one-year-old bushes. C. L. R.

Washington, D. C



HIBISCUS CISPLATANUS IN THE BOTANIC GARDEN, WASHINGTON, D. C.

Cannas in 1898.

This season has been very favorable to the growth of cannas, and to bring forth their salient points as bedders; and this year has proved them to surpass all other plants for decorative purposes, leaving geraniums and other plants far in the rear whenever a display is desired. We regret to say that they seemed rather neglected last spring and were in much less demand than last year, but in fact every other class of plants went slowly in the first turmoil of the war.

Our stock cannas are planted out in blocks, each variety by itself, giving at a glance the opportunity to show their quality as bedders. They are grown on light soil with only a dressing of superphosphate, and they made a short, compact growth, developing more and better flowers than some planted nearby in well-manured soil. Of the several new varieties sent for trial we noted the following:

Parthenope, salmon; Wendlandii, an improved Italia; Suevia, yellow; Asia; America, red and yellow, large; La France, deep salmon, bronze foliage; Heinrich Seidel, yellow, spotted red; Edouard Andre, red, bronze foliage.

The above are the best of the Italian varieties, and while having larger individual flowers, are not for general purposes of bedding to be compared with the Crozy class, as follows:

Comtesse de Sartiges, light yellow, spotted; Fuerst Bismarck, deep red; Francois Gos, apricot red; Menelek, red, large flower, very good; Baronne Thenard, light salmon; Hohenlohe, yellow, dwarf; Madagascar, yellow and red; Goliath, crimson, very large; Paul Meylan, apricot red.

The following are mostly of American origin: Robert Christie red, very good; Fairy Queen, improved Queen Charlotte; Sam. Trelease, scarlet, free and good; J. D. Eisele, deep red; Annie Laurie, pink, very good; Maiden Blush, light blush; Duchess of Marlboro, pink, nice shade; Gloriosa, a dwarf Queen Charlotte, not very free;

Duke of Marlboro, the darkest crimson; Philadelphia, dark red, good; Baltimore, red; Blazing Torch, scarlet; Martha Washington, pink, large.

Most of these, if new and good, are hardly equal for general purposes to some of the older varieties, and if asked for a selection, we would recommend the following:

Pres. Cleveland, bright red, as a bedder not equaled by any of the foreign or native varieties; Florence Vaughan, yellow spotted; Mme. Crozy, scarlet; Charles Henderson, deep red; Paul Marquant, salmon; Mlle. Berat, pink; Annie Laurie, pink, large truss; Duke of Marlboro, dark crimson, dwarf; Sunbeam, yellow; Yellow Crozy; Fairy Queen, improved Queen Charlotte, dwarf; Leonard Vaughan, scarlet, bronze foliage.

Possibly some of the new ones may develop better points another year.

DENYS ZIRNGIEBEL.

Storing Cannas Through Winter.

ED. AM. FLORIST:—Please give details of the best method of treating and storing cannas after they have been taken up.

CANNA.

Replying to the above I will say: Where greenhouse facilities may be had place the canna clumps just as they are under the stages and keep them dry. Give a temperature of from 50° to 65°. About March 10 the tubers can be divided, potted and placed on a bench where plenty of light may be had and the house kept at 70° or 75°. When in a growing state give plenty of water. Where greenhouse facilities cannot be had the tubers should be stored in the basement or attic, kept free from frost and not warmer than 65°. If placed in damp, clean sand, under the above conditions, the tubers will winter very well. An occasional look at the tubers is necessary, inasmuch as they sometimes rot. The rotted ones should immediately be taken out and the remaining tubers set over.

EDWIN A. KANST.

ROCKFORD, ILL.—Julius Kraft leaves next week for Henry A. Dreer's, at Philadelphia, and will spend ten days in the east.

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OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

FLATBUSH, N. Y.—A score of 946 with a five-man team was recorded at the last session of the club. Eugene Dailledouze led the list with a score of 208 in one game. There were three "pots," the winners being Eugene Dailledouze, Louis Schmutz and D. Y. Mellis. Some of the Flatbush members are as good pool players as they are bowlers.

Fair Bowling at St. Louis.

Following is the score rolled on Monday evening, October 24:

Name.	1st	2d	3d	4th	5th	Av
J. J. Beneke	129	151	133	169	157	148
D. Finlayson	150	123	148	173	141	146
C. A. Kuehn	140	129	170	142	145	145
F. J. Fillmore	151	133	139	133	115	134
Emil Schray	118	154	126	126	144	133
R. F. Tesson	80	102	173			119

Chicago Bowlers Elect Officers.

October 21 the Florists' Bowling Club elected Phil. J. Hauswirth, president; C. W. McKellar, vice-president; John Degnan, secretary and treasurer. After the meeting two games were rolled with the following score:

Name.	1st	2nd	Av
Walter Kreitling	181	143	162
P. J. Hauswirth	129	177	153
G. L. Grant	130	160	145
John Degnan	124	127	125
C. W. McKellar	98	145	121
A. Lange	90	148	119
J. C. Vaughan	97	120	108
E. Enders	96		96
Alex Henderson	73	108	90
S. Snedeker	83	75	79

New Yorkers Organize for Bowling.

Sixteen bowling enthusiasts responded to the call of the New York Florists' Club to organize a bowling section on Monday evening, October 24, several of the number being members who had not been seen at a club meeting for many months. A. S. Burns presided and appointed Messrs. Weathered, Lang and Leuly a committee to frame by-laws, etc. Election of officers will take place on Monday, November 14, and in the meantime Alex. Wallace is secretary and Alex. Burns custodian of the funds. Bowling will be in order each Monday evening until then. After the business session three games were played and scores varying from 35 to 179 were made. Adjournment came at midnight and all were happy over the first meeting.

Sports at Philadelphia.

The Gun Club met at the rooms Tuesday evening last and discussed shooting matters. A new club house is to be built on the grounds at Wissanoming in the near future. That the meeting of the American Carnation Society here next February is not to be all work is evidenced by a programme made out by the Gun Club, which expects to have a shooting tournament at that time. Nor do we believe the bowlers will be behind; visitors handy with the wooden spheres will be sure to have a chance to show their skill, either singly or in teams and there will probably be some prizes to carry away as mementoes of the occasion. George Watson is getting to be a regular bowling fiend; he scarcely gives up any tickets, managing to get on the winning side by reason of his good luck and skill.

The Gun Club's shoot for the president's medal on the Wissanoming grounds, October 25, was a spirited affair and some excellent scores were made as will be seen by the following record. Each contestant was allowed fifty targets.

C. D. Ball	37	W. H. Westcott	22
W. K. Harris	41	J. Engle	34
John Burton	36	W. C. Smith	41
George Anderson	44	A. B. Cartledge	44

The positions at the finish, when the handicaps had been added, was Smith, first; Ball, second; Cartledge, third; Anderson, fourth. Westcott and Harris tied for fifth place and Engle last.

A fifteen target team match followed in which some good shooting was done, the team captained by Smith coming out winners by five.

Anderson	15	Smith	15
Cartledge	14	Burton	15
Harris	8	Engle	13
Ball	10	Westcott	9
	47		52

K.

A Short Sermon for Quakers.

Skilled physicians tell us that bowling is the best exercise that a man can take. Men have died for want of exercise many a time, while a judicious hour or two on the alleys regularly would have prolonged life, saved doctor's bills and secured the countless blessings of high health.

Take heed, therefore, ye nabobs of the retail shop and the rose farm, and listen, thrice precious gouty gentlemen of the seed store and the nursery; save yourselves while there is yet time, and join the jocund crowd who make the welkin ring of an evening in Horticultural Hall. Good judges say we have the best built, truest, most convenient alleys of any club in Philadelphia and the attendants are on duty both day and evening, so it is no fault of the Florists' Club of Philadelphia if its members are not well exercised and in sound health.

We had Wm. Paul Binder and E. A. Seidewitz, both of Baltimore, with us recently. Mr. Binder is keen on the game and bemoans the want of enterprise which prevents the Baltimore club having these elegant accommodations in the way of bowling alleys, shuffle boards, pool and billiard tables; but he need not worry, for even the Buffalonians cannot yet boast of their own alleys although they are the "really great people" under the footstool at the present time. Friend Leuly, who was a visitor in Philadelphia recently says that New York has only been able thus far to raise $100 for the bowlers, which is not what one would expect from a city so near to Philadelphia. Four figures would be more like the thing. I think it will come, however, because eventually the New York club will have a house of its own with all the "comforts," similar to the people who live on the banks of the Delaware. Even progressive Boston is away behind on this question of providing exercise and recreation. However, I feel that 1899 is going to be a great year for us—there is already apparent a great awakening which will crystalize into action in the near future.

When John Westcott arose in the meeting at Omaha and spoke those telling words in favor of recreation, in his earnest, enthusiastic, convincing way, he set many to thinking who had never thought on the subject before. His words carried conviction, not only because of his high standing in the trade but also because of the absolute sincerity of the man. He has often talked in the same way but never with such effect; never before were circumstances so favorable for creating a profound impression. Conventions are like schools. Their aim is grand and desirable, but first get your pupils. If there are no sports there will be very few pupils, at least of the kind that are worth having. The ablest minds in the business have said so and Omaha was a striking example of the truth of that position. It was fortunate there was a John Westcott present to speak the right word at the right moment.

Here in Philadelphia these many years there has been a large percentage of the trade who were keen sportsmen, either in bowling, shooting, shuffleboard or some other line and it is pleasing to note that the year 1898 shows no falling off. Last week a few more new faces were seen in the club rooms; some were old timers not seen for ages, others entirely new recruits, and all found a cheery welcome. This being jubilee week, difficulty is encountered in getting across Broad street; besides, many are very busy, so the rooms have not been so lively. Philadelphia is "a sight" just now. The walls are fortified and ramparted for the jubilee. There are little fortresses, bastions, ravelins, gabions, platforms, peristyles and what not in all directions and for the nonce all the world and his wife are daft with enthusiasm because the war is over. So if we Philadelphians are unduly enthusiastic this week remember the occasion and our good intentions.

G. C. W.

Mould of the Paeonia.

During the last week of May a most remarkable development of Botrytis vulgaris Fr., was met with upon garden pæonies. At that time the plants were in an apparently vigorous condition; they were pushing their flower stalks and the buds beginning to show pink color. While the outer leaves of the clumps were in a healthy condition, all the inner ones were already brown and hung lifeless upon the stems, overrun with a surprising growth of botrytis.

In the present instance the fungus is playing no saprophytic role, like a toad stool upon a dead log, but has flourished as a parasite upon the rank spring herbage of the host and at the time was spreading to and upon the outermost leaves of the clusters. It seems to be a clear case of an unusual outbreak of a comparatively harmless pæonia fungus destroying all the foliage that was not directly in sight, that is, in the sunshine.

The conditions favoring this fungus are the many rainy days that preceded the time of the inspection, there having been eighteen out of twenty-eight upon which showers had fallen, and the excessive cloudy weather, the month up to that time having a record of twenty dark days.

The writer has had no better illustration of the influence of rainfall and consequent absence of sunshine upon fungus growth, for in this case only the outermost leaves exposed to the air and sunshine were healthful, while all within the umbrella-like cover that these made were dead or dying and literally covered with a dense growth of mould, and the multitudes of spores. In short, the young foliage that otherwise might have been normal was destroyed by the Botrytis vulgaris that had been highly favored by continued moisture, lack of sunshine and the confinement of the spore laden air in the interior of the clumps.

BYRON D. HALSTED.

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Elmira, N. Y.

Owing to the lateness of the blooming season the chrysanthemum exhibition of the Elmira Horticultural Society has been postponed to November 15 and 16. The society presents the following list of prizes, competition open to all, and the exhibits judged according to rules of the Chrysanthemum Society of America:

Eclipse Bicycle Company's '98 wheel, for best new chrysanthemum seedling or sport, winner to be named Eclipse; Fassett prize, for best collection twelve varieties; Fassett prize, for best collection six varieties; Slee prize, for best six pink blooms; Slee prize, for best six yellow blooms; Stancliff prize, for best six white; Stancliff prize, for best six bronze; Stanchfield prize, for best vase cut blooms; Hoffman prize, for best single bloom, '97 variety.

The members of the society are working hard to make this first show a success. H.

KINGSTON, ONT.—O. G. Johnson showed the first chrysanthemums of the season October 14. They were well grown specimens.

CROMWELL, CONN.—A. N. Pierson, the largest grower here, has 200,000 feet of glass and a magnificent display of chrysanthemums is on now.

GREENFIELD, MASS.—E. B. Beals proposes, with the help of school children and amateurs, to give a chrysanthemum show about the middle of November.

KANSAS CITY, MO.—Geo. M. Kellogg, Pleasant Hill, Mo., is opening a fine retail store here. H. J. Millatt, formerly in business at Buffalo, will be in charge.

POUGHKEEPSIE, N. Y.—The fourth annual flower show of the Duchess County Horticultural Society will be held this year in the Masonic Temple on November 2, 3 and 4. Entries must be made on or before October 26 on account of the limited space available.

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ASPARAGUS SPRENGERI 6.00 per 100
PRIMROSES..... 4.00 "
SMILAX..... 2.00 "
HYDRANGEAS, field-grown....30.00 "
VINCA variegated..... 5.00 "

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2½ "	6 to 8 "	10.00	90.00
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Newport, R. I.

The Newport Horticultural Society's chrysanthemum show will be held at Masonic Hall on November 15, 16 and 17. The society previously set dates to hold this show on November 2, 3, and 4, and were disappointed in not doing so, which was owing to the fact of the chrysanthemums not blooming here as early as usual. It is expected that a finer display of cut blooms will be made than at any previous exhibition. There will be a falling off, it is thought, in the plant exhibit in comparison to what has been shown here in previous years although sufficient plants will be exhibited to make this part in the exhibition interesting. The present outlook is that it will be a very creditable show.

The society's past experience in regard to the public's support is a sad one as the exhibitions have always given poor financial returns. With this fact in mind the committee of arrangements has this year added some side attractions. It is understood that there will be dancing each evening from 9 o'clock until midnight; the charge for each person, including admission to the show and dancing, will be 25 cents. The committee also intends erecting a flower booth to be presided over by several young ladies who are expected to sell such flowers and plants as members may donate and it is intended also to have a shooting gallery and refreshment stand, which it is thought will add much to the general receipts. It will be necessary to receive considerable money to meet expenses as the money prizes offered this year are larger than heretofore, but with the members working with a will, as they now are, their efforts should result in good returns financially and give to the public a fine display of flowers and plants. J. J. B.

ROCHELLE, ILL.—A very successful chrysanthemum show is in progress here, the proceeds of which will go to the relief fund of Company M, Third Illinois Infantry, now in Porto Rico.

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" "	4½	30	4 6	30 00
" "	4	20	40	20 00
Latania Borbonica	6	30	Char. 5-6	75.00
" "	5½	24	Char. 4-5	50 00
" "	5	20	Char. 3 4	35 00
" "	4½	20	Char. 3-4	2 00
" "	4	16	Char. 1-2	15 00
" "	3	10	5-6	10 00
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" "	6	24-26	5-6	75 00
" "	5½	20-24	5-6	50 00
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WANTED—A quantity of good sash, 3x6 or 4x6.

CLIFFE'S GREENHOUSES,
Germantown, - - Philadelphia, Pa.

There are buyers for all kinds of stock advertised in the American Florist.

Cincinnati.

BUSINESS SHOWS IMPROVEMENT.—BEAUTIES AND CHRYSANTHEMUMS.—BINDER'S SEEDLING.—VISITORS.

With cooler weather business has brightened up somewhat, but trade as a whole can hardly be called active. Our wholesale houses report shipping orders quite numerous, especially the latter part of last week. The Cincinnati Cut Flower Company shipped over 500 Beauties daily and it seems as though they have a "cinch" on them. Chrysanthemums are with us in all their glory, but judging from present indications they are not sought after as in former years; $1.50 per dozen for choice Robinson is all that can be realized at retail, with few exceptions. Bergmann sold slowly at the flower market and pot plants are not in it so far.

Paul Binder, of Rider, Md., had a seedling chrysanthemum before the C. S. A. committee here on October 22. The flower is a bright yellow, medium size, foliage well up to the bloom.

Fred. C. Koltoff was thrown from his buggy October 18 by his runaway horse and received a severe cut over his left eye.

Walter Mott, representing H. A. Dreer; J. B. Heiss, of Dayton, Ohio, and S. S. Skidelsky, representing Robt. Craig & Son, Philadelphia, were recent callers. They report wholesale trade in decorative plants as satisfactory.

H. SCHWARZ.

Mt. Kisco, N. Y.

The fourth annual show of the Bedford Flower Club will be held at the Casino on November 10, 11 and 12, under the management of the Westchester Horticultural Society. Four silver cups and other valuable prizes will be competed for. Howard F. Bailey offers a special premium, value $75, for the best twenty-five blooms of chrysanthemums, not less than eight varieties. Schedules may be obtained from the secretary, H. A. Spavins.

Cyclamen Plants!

NOW READY FOR DELIVERY.

600, 3-inch	pots	at $ 8.00 per 100.
2000, 4	"	at 12.00 "
1000, 5	"	at 25.00 "
500, 6	"	at 50.00 "

The above plants are grown from the very choicest mixture of seed and are guaranteed first-class in every respect.

Shipped direct from the greenhouses.

Vaughan, McKellar AND Winterson

47 Wabash Ave., CHICAGO.

BULBS

Of All Kinds.

Hulsebosch Bros.,

ENGLEWOOD, N. J.

CLEARY & CO. Horticultural Auctioneers.

Announce

A GRAND AUCTION SALE

—OF—

PALMS!

ETC., FROM THE LEADING PHILADELPHIA GROWERS.

WM. K. HARRIS, ROBT. CRAIG & SON, JNO. BURTON.

—ON—

Tuesday, November 1st., 1898, at 11 a. m.

AT THEIR SALESROOMS

60 VESEY ST., N. Y. CITY.

This will be the last sale of these celebrated growers this season, and offers a rare opportunity to secure well-grown ornamental plants of the very highest character.

Dealers will make special note of the day and date.

A special catalogue is in preparation and will be mailed to all applicants.

CLEARY & CO., = 60 Vesey Street, New York.

OSTRICH PLUME FERNS

	Per 100
Nephrolepis Pluma, 4-inch pots	$35.00
Latania Borbonica, 5-inch pots, 6 to 8 leaves, 18 inches high	25.00
Adiantum Cuneatum, 4-inch pots, extra strong crowns	20.00
Grevillea Robusta, 5-inch pots, 18 in. high	25.00
Ferns from 2¼-inch pots, Pteris Serrulata Cristata, Pteris Cretica, Alba-lineata and Scolopendrums, $3.50 per 100; $30.00 per 1000.	

CASH WITH ORDER.

GEORGE H. GREY, *Florist,* Kenwood, ALBANY, N. Y.

AZALEAS.

First consignment arrived in perfect condition.

Can ship immediately

9-10-inch	$30.00 per 100
10-12-inch	35.00 per 100
12-14-inch	45.00 per 100
14-16-inch	60.00 per 100

All well furnished with buds.

LEADING SORTS: Apollo, A. Borsig, Bern, Andrea Alba, Deutsche Perle, Empress Brazil, Mme. Van der Cruyzen, Simon Madner, Vervaeneana, Etc.

HIRAM. T. JONES, UNION COUNTY NURSERIES, **Elizabeth, N. J.**

Acalypha Sanderi,

Each, $1.00; Dozen, $9.00.

VAUGHAN'S SEED STORE, 14 Barclay Street, NEW YORK.

VAUGHAN'S GREENHOUSES, WESTERN SPRINGS, ILL.

THE GREAT DECORATIVE PLANT NOVELTY.

WRITE TO NEAREST ADDRESS.

LOWEST PRICES ON BULBS, BUT CASH!

Send in your wants for quotation, no price list issued.

J. L. SCHILLER, 404 East 34th St., NEW YORK.

FERNS! ⚜ FERNS!

The following Ferns, TO CLOSE, at $2.00 per 100; $15.00 per 1000. All 2-inch, strong:

Pteris Tremula	Pteris Ensitolia
" Serrulata	Adiantum Cuneatum
" Serrulata Cristata	" Williamsii
" Longillora	" Pubescens

E. HIPPARD, - Youngstown, Ohio.

When corresponding with any advertiser on this page, please mention the fact that you saw the ad. in the AMERICAN FLORIST.

OUR WELL KNOWN SPECIALTIES.

1500 Rubber Trees, perfect in growth and foliage, 5½-inch $5. 6 inch $7, 8-inch $11 per dozen. 100 at 7 dozen rates.

Latania Borbonica seedlings, low and strong, $3 per 100; $25 per 1000.

25 000 extra well grown Ferns for dishes, $3 per 100; $25 per 1000.

Sword Ferns. Nephrolepis Exaltata, strong, 4½-inch, $10. 5-in., $20 per 100.

65,000 Palms, Dracenas Pandanus, etc. Send for price list. Medal awarded World's Fair, 1893, on Palms.

We sell for cash only, but allow inspection at express office before accepting.

ALBERT FUCHS.

26 model greenhouses at 2059-73 N. Halsted St., CHICAGO, ILL.

10,000 1 gl. Yuccas ready at low cash prices. A few steady customers wanted for roses and carnations.

MASSACHUSETTS AGRICULTURAL COLLEGE

'MUMS STOCK PLANTS.

All the new and old. Per 100

Fitzwygram, Midge — earliest whites.....$8.00
Merry Monarch, second white..... 3.00
Yellow Monarch, earliest yellow..... 3.00
Marion Henderson, second yellow.... 5.00
Marquis de Montmort, earliest pink.. 3.00
Glory of Pacific, second pink..... 3.00
Send for our Price List of other varieties.

AMERICAN ROSE COMPANY
Washington, D. C.

LAST CALL—ROSES.

Excellent Brides, Perles, Meteors and Maids, $3.00 per 100.

Make a note of this, as this ad. will not appear again. If you want *fine* Rose stock, cheap, out of 3 and 3½-inch pots, order at once.

CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

HYDRANGEA OTAKSA

XX strong plants, per doz., $3.50; per 100, $27.50
" " for 8-inch pots.....
.....per doz., $3.00; per 100, $20.00
Medium size. " 2.00; " 12.00
ERICA FRAGRANS, 5 & 6-in. pots, per doz., 4.50
Extra fine plants.
DUTCH BULBS & INDIAN AZALEAS now at hand.
L. C. BOBBINK, Rutherford, N. J.

BEGONIAS.

	Per 100	Per 100
Argentea guttata	2-inch, $2.00;	3½ inch $4.00
Feastii, Speculata	2-inch, 2 00;	
Rubra	2-inch, 3.00;	
Bertha Chatteaurocher, Robusta		3½-inch, 4.00
De Lesseps, Pres. Carnot		3½-inch, 4.00
Marie Louise Violet clumps		4 00
Roses—La France ... $3.00 per 100; Meteor White, Pink and Yellow Rambler		2.50 3½-inch 4 00

THE NATIONAL PLANT CO., Dayton, O.

Geranium "MARS"

	Per Doz.	Per 100
ROOTED CUTTINGS	$.50	$3.00
2½-INCH POTS	.75	5.00

Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

Pink Paeony Clumps FOR FALL PLANTING

At $10.00 per 100. Will divide into two and three. Easily cultivated; need no protection during winter. Any florist having land will find them big payers. Freight any distance.....

BRANT & NOE, Forest Glen, Ill.

Cheap Cannas

I offer bargains in Cannas for the next 10 days, good plants, average 2 and 3 eyes, $1.00 per 100; $8.00 per 1000: **Austria, C. Henderson, Mme. Montefiore, Golden Queen, etc.**

CASH PLEASE.

W. W. COLES, KOKOMO, IND.

Lettuce Plants

B G BOSTON, BOSTON MARKET, GRAND RAPIDS and TENNIS BALL.

Extra strong plants, 15 cts. per 100; $1.00 per 1000; $8.50 per 10,000. If by mail, add 10c per 100.

CASH WITH ORDER.

R. VINCENT, Jr., & SON, White Marsh, Md.

X CYCLAMEN X GIGANTEUM.

New crop seed in best mixture. The finest strain of Giant flowering varieties grown. Be sure to sow. Per trade pkt., 200 seeds, $1.00; half pkt. 50c.

JOHN F. RUPP, Shiremanstown, Pa.

Herr's Pansies.

Good little plants (greenhouse grown) ready December 1st, at 75 cts. per 100, or $4.00 per 1000.

ALBERT M. HERR, LANCASTER, PA.

Herr's Carnations.

Every cutting guaranteed satisfactory or money refunded. All the leading varieties in quantity at reasonable prices.

For 14 Days Only!

	Per 100	1000
200,000 Pansy Plants, 500 at 1000 rate		$3.00
50,000 Geraniums, up to date vars., 2-in.	$2.00	15.00
5,000 Coleus, str'g plants, 20 vars., "	1.00	8.00
5,000 Heliotropes, 4 newest vars., "	2.00	18.00
1,000 Southern Tyme, white.....4-in.	4.00	
2,000 Little Gem Feverfew.....2-in.	2.00	15.00
6,000 Flowering Begonias, strong, 20 varieties.....2-in.	2.00	18.00
2,000 Flowering Begonias, 8 varieties, bushy.....3½-in.	3.00	25.00
500 Velvet Plant (Gynura).....2-in.	3.00	
1,000 Primula Obconica..... "	2.50	
200 Coleus Brownia (new)..... "	5 00	
300 Adiantum Cuneatum.....5-in.	10.00	
200 Nephrodium Cristata.....6-in.	10.00	
400 the true Maidenhair Fern..5-in.	10,00	

THE MORRIS FLORAL CO, MORRIS, ILL.

PANSIES

Roemer's Superb Prize Pansies.

Seed and Seedlings sold out. Large Plants for early winter blooming ready now.

$1.00 per 100. Cash with Order.

PETER BROWN, Lancaster, Pa.

SPECIAL BARGAIN OFFER NEW CROP **PANSY SEED** All the Giant and Fancy Strains that are to be had, either in this Country or Europe. Specially made up by us from all the separate colors; and is without question the finest strain of large flowering Pansies. **ONLY 14 CENTS** per trade packet of 500 seeds, or **8 CENTS** for ½ trade packet of 250 seeds; with illustrated directions how to grow big Pansies.

S. Y. HAINES & CO. 105 Boston Block, MINNEAPOLIS, MINN.

Pansies Worth Raising.

EXCELLENT SEED.

3-16 oz. $1.00; 1 oz. $4.00; up in 8 to 10 days, if properly treated.

FINE STOCKY PLANTS, $4 00 per 1000, f. o. b. express. **CASH WITH ORDER.**

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

300,000 Pansy Plants The JENNINGS Strain.

Fine field-grown, stocky plants, in great variety of colors. All large flowering.

By mail, 75 cts. per 100; express, $4.00 per 1000; 5000, $18.00. Seed of above, $1.00 per pkt.; $5.00 per ounce.

CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, Southport, Conn.
Grower of the Finest Pansies.

PANSY PLANTS

Per 100, 50c.; per 1000, $2.50.

FERNS, 300 assorted..... per 100, $2.50

CASH PLEASE.

JOS. H. CUNNINGHAM, Delaware, O.

Violet Clumps!

Luxonne, $5.00; Admiral Avellon, $4.00; California, $3.00; Russian, $3.00; Swanley White, $4.00.

CANNA CLUMPS. Try some of our pink Cannas.

The Conard & Jones Co., WEST GROVE, PA.

To Catalogue and Market Men.....

NOW READY!

STRONG CANNA TUBERS

of 1 to 3 eyes.

NEW—Florida, Gloriosa, Surprise, Pres. McKinley. $5.00 per 100.

Mme. A. Bouvier, Flamingo, Alsace, Souv. de Antoine Crozy. $3.50 per 100.

Italia, Queen Charlotte, Chicago, Philadelphia Eldorado, Comte de Bouchand, Papa, Glory de Montet. $2.00 per 100.

Burbank, Florence Vaughan, Egandale, Salmon Queen, Sunset Glow, Mme. Crozy, Chas. Henderson A. Bouvier, John Laing, Paul Marquant, Austria, and many more. $1.50 per 100.

Full 1000 of Burbank, Austria or Egandale, $8.00
Full 1000 of Florence Vaughan or Queen Charlotte $15.00. (All others named, 10 per cent. off by the 1000.)

ORDER NOW. Nothing reserved at these figures.

F. O. B. Express or Fast Freight.

Pampas Plumes. Crop 1898.

Size in length, exclusive stems. **First-class in every respect.**

	Per 100
17 to 20 inches	$.75
20 to 22 inches	1.00
22 to 24 inches	1.25
24 to 27 inches	2.00
27 to 30 inches	3.00

Pampas Grove Nurseries Greenland P. O., Fla.

CANNAS

To grow on some novelty Cannas in your houses this winter will brighten up things and will pay sixfold in the increase. Besides, it's a good adv. all winter long to your retail buyers who visit the place to get warm and to see what you're going to have. We have made up a set which we know is worth growing on. It contains Allemania, the giant and best of the Italian type; America, orchid-flowered, bronze leaf; Dwarf Florence Vaughan, yellow and red; Mlle. Berat, pink; Francois Gos, pure orange; Secretary Chabanne, orange with deeper markings; Souv. d'Antoine Crozy, scarlet with heavy gold edge; Triumph, dwarf rich, bright red; Inglewood, dark leaf, flowers deep vermilion; Menelek, rich nasturtium red—all A1 high class Crozy sorts, the ten till Nov. 20th for only $1.50.

VAUGHAN'S SEED STORE,

NEW YORK: 14 Barclay St. **CHICAGO:** 84-86 Randolph St.

TO THE CATALOGUE TRADE.

10,000 Clumps CANNAS, leading varieties.
5,000 SPIRÆA Anthony Waterer, 1 and 2 year.
5,000 Logan Berry, Strawberry, Raspberry and Golden Mayberry.
5,000 AMPELOPSIS VEITCHII. Write for special prices.
5,000 **VIOLETS**, Lady Hume Campbell, clumps $5 per 100; in pots $3 per 100; California, clumps $3 per 100; Luxonne, clumps $4 per 100.

BENJ. CONNELL, Florist. **West Grove, Pa.**
Please Mention the American Florist.

Hydrangea Otaksa.

Fine 6-inch pot plants, at $23 per 100
" 5 " " 20 "
DRACAENA INDIVISA, pot grown, 6-inch 20 "
" " " 5 " 15 "
UMBRELLA PLANTS, 3 and 4-inch, $3 and 4 "
See Convention Number for other stock.
Cash please. **CARL HAGENBURGER, W. Mentor, O.**

SMILAX PLANTS, $1.50 per 100, $14.00 per 1000.
VINCA VAR., 1 yr., $4.00 per 100; 2 yr., $8.00.
Extra strong, field-grown. Sample, 5c.
J. DANN & SON, Westfield, N. Y.

Cleveland.

BUSINESS IMPROVEMENT.—ROSES AND CARNATIONS PLENTIFUL AND CHEAP.—THE CLUB DISCUSSES FAKIRS.—NOTES.

Business continues to show some improvement and there seems to be considerable promise from the future. At present roses and carnations are in somewhat over supply. Roses in fair quality have been sold as low as $15 per thousand. Chrysanthemums are increasing regularly in supply, although as yet there has been no overstock. Prices vary considerably, running from 75 cents to $1.50 per dozen. The latter rate buys a very good article indeed. Bergmann is nearly all cut or has been susperseded by later sorts such as Mrs. Henry Robinson.

At the last meeting of the Florists' Club some discussion was occasioned by the practice of some growers of selling stock to fakirs at the same or lower rates than the legitimate dealer can obtain. It seems to be the same old story that is familiar to the florists of all the larger cities—a practice that must react to the disadvantage of the growers themselves as well as working a great injustice to the regular dealer. The general opinion seemed to be that the best way to discourage the custom is for each retailer to refuse to buy of wholesalers guilty of the practice. The entire matter, however, was laid over for further consideration at the next meeting, when possibly some action may be taken.

Cleveland will have no chrysanthemum show this fall.

W. J. Pentecost, of S. N. and W. J. Pentecost, and Miss Saywell were married October 26. A.

Nashville, Tenn.

The cool weather of the past two weeks has made a wonderful improvement in the quality of roses. The color of Bridesmaids is especially improved. Brides, too, are much larger. Beauties are abundant but sell very slowly even at from $2 to $3 per dozen; other roses are retailing at $1 per dozen. Violets are improving, but only the single varieties are yet in this market. Chrysanthemums are coming in sufficiently to supply all demands. Pot grown varieties may improve as the season advances, but are not now up to standard. Carnations have also put on new vigor with the cooler weather, but growers say that another season they will not plant so early, as the long hot season gives them a setback not easily recovered from. Trade continues to improve and is fully fifty per cent better than it was at this time last year. M. C. DORRIS.



MAKES FLOWERS FLOURISH And Your Profits Increase.

Walker's Plant Food

is a scientifically prepared fertilizer which every one of your customers should have and will want when you show it to them.

100% Profit for You.

Send for free literature and price lists.

Walker Fertilizer Co., Clifton Springs, N.Y.

SAVE 25 PER CENT

on your FLOWER POTS. Send for price list and Bargains to

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

THE HARRISH DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent.

KRAFT'S PLANT TONIC

THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. Send for circular and descriptive price list.

THIS INSECTICIDE IS NON-POISONOUS.

KRAFT PLANT TONIC CO., - ROCKFORD, ILL.

Standard Flower Pots...

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

☞ Write us before placing your orders elsewhere.....

CAMBRIDGE TILE MFG. CO., Covington, Ky.





BRANCH WAREHOUSES:
Kearney and Westside Aves., Jersey City, N. J.
Jackson Av. & Pearson St., Long Island City, N. Y.

Standard Pots Made by

Good Railroad Facilities For shipping.
Special Attention Given to Mail Orders, and Special Sizes Made to Order.

KELLER BROS.
NORRISTOWN, PA.

Price Lists Furnished on Application.

THOSE RED POTS

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y,
HARRY BALSLEY, Rep. DETROIT, MICH., 490 HOWARD ST.



32-page pamphlet on "Ashes as a Fertilizer," for the asking. Every farmer should have one.

GEO. STEVENS,
PETERBORO', ONT., Canada

Now Ready

THE American Florist Company's DIRECTORY of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Fully revised to date with upwards of 3,000 New Names. Price $2.00; in flexible leather binding, $3.00.

American Florist Company,
324 Dearborn St., Chicago, Ill., U. S. A.

The MODEL Extension Carnation Support



QUEENS, N. Y., Feb. 16, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97.
MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes
AT LOWEST PRICES.
Write for Prices, Circular and Special Discounts for Early Orders.

The Model Plant Stake Co.,
THERON PARKER, Mgr., Inventor and Patentee,
22 MORTON STREET BROOKLYN, N. Y.
Mention American Florist.

FLOWER POTS
ALL KINDS.
STANDARD POTS A SPECIALTY
List and SAMPLES FREE.
J. G. SWAHN'S SONS, P. O. Box 78, MINNEAPOLIS, MINN.



GEO. KELLER & SON,
MANUFACTURERS OF
Flower Pots.
Before buying write for prices.
361-363 Herndon Street
near Wrightwood Ave.,
CHICAGO, ILL.

Standard FLOWER **Pots**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST,
Station M, N. E. WASHINGTON, D. C.

Toronto.

TRADE CONDITIONS TERSELY TOLD.—PROSPERITY OF THE GARDENERS' AND FLORISTS' ASSOCIATION.—MEDAL FOR MANTONS.—NOTES.

The weather is mild and wet, which makes business quiet. Chrysanthemums, roses and violets of excellent quality are coming in freely.

The Toronto Gardeners' and Florists' Association at its last meeting added twelve new members to the list and elected A. H. Ewing an honorary member. A handsome special medal was presented by Captain McMaster to Manton Bros. for the best table of decorative plants shown at the last industrial exhibition. The members expressed their sympathy with President Alonzo Watkins, whose daughter Clara, after suffering for some time with consumption, had that day passed away.

The executive committee of the Toronto Horticultural Society held an important meeting October 25, at which the final arrangements for the school childrens' chrysanthemum exhibit to be held in conjunction with the Gardeners' and Florists' show on November 12, were discussed and furthered. S. P.

ELKHART, IND.—Mrs. M. J. Bishop has sold her greenhouses to Enos Myers and William Currier, and will sell cut flowers and decorative plants at wholesale from a down town office. Myers & Currier are removing the houses to a farm owned by the former.



PULVERIZED

Sheep Manure

50 lbs., 75c.; 100 lbs., $1.25; 500 lbs., $5.00; 1000 lbs., $9.00; per ton, $17.00, if shipped from Chicago. 50 lbs., $1.10; 100 lbs., $2.00; 500 lbs., $8.00; 1000 lbs., $15.00; ton, $27.00, if shipped from New York.

Vaughan's Seed Store, NEW YORK. CHICAGO.

NATIVE GUANO!

(Desiccated Night Soil.)

The ideal florist fertilizer: contains in available condition, all the elements of plant food. Pleasant to handle. By bag, ton or carload.

STANDARD FERTILIZER CO.,
1822 Filbert St, PHILADELPHIA.

Sheep Manure!

IN BULK	Per ton
Pulverized, car lots	$8 00
Natural, car lots	4 00
IN SACKS OR BARRELS	
Pulverized, less than car lots	12.00
Natural, less than car lots	8 00

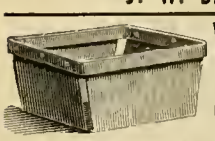
F. O. B. cars here.

Mitchell, So. Dakota. E. C. NEWBURY.

A Few Dollars

will buy a night watchman that is always awake and will ring a call bell when the temperature goes below the required degree. The bell can be placed in residence and is easily adjusted. Better get one before you get a chill. Complete with Thermostat Bell. Battery and 100 feet of copper wire for $5.00.

J. W. DAVIS, Morrison, Ill.



WILLIAM MAY,
Manufacturer of the
"STAR"
FRUIT PACKAGES

Berry Crates and Baskets a specialty. Facilities unsurpassed. The lowest prices.
For further particulars, address
WM. MAY, New Springfield, Mahoning Co., O.

H. M. HOOKER COMPANY,
COR. CLINTON and RANDOLPH STS. CHICAGO.

GREENHOUSE GLASS
OUR SPECIALTY.
LARGE STOCK PROMPT SHIPMENT.
ALSO MANUFACTURERS OF **Pure Linseed Oil Putty, Paints, Brushes Etc.**
WRITE FOR LATEST PRICES

WHEELER-STENZEL CO.
IMPORTERS AND JOBBERS OF
Greenhouse Glass
Make your contracts for next season now. We can deliver to any part of the country and Save You Money.....
72 Sudbury St., BOSTON, MASS.



GREENHOUSE MATERIAL
Cal. Red Cedar and Louisiana Cypress.
BEST GRADES. PERFECT WORKMANSHIP.
A. DIETSCH & CO. 615-621 SHEFFIELD AVE. **CHICAGO, ILL.**



NIKOTEEN
IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE
DOES NOT INJURE THE MOST SENSITIVE PLANTS- ENDORSED BY PROMINENT FLORISTS- USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT- 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN ---- CIRCULAR FREE- SKABCURA DIP CO. CHICAGO.
Kill and Save the Blooms Bugs!
QUICKLY DOES IT.

Mention the American Florist.

Sulpho-Tobacco Soap

Universal Insecticide
For Flowers, Trees and Animals.
Recommended and in use by the foremost florists and nurserymen in the land.
For Sale at the Seed Stores.
ROSE MFG. CO.
NIAGARA FALLS, N. Y.

THE BEST FOR ALL Florists'
"ROSE LEAF" EXTRACT OF TOBACCO INSECTICIDE
FOR SALE BY SEED STORES
FOR FREE PAMPHLET WRITE TO
LOUISVILLE SPIRIT CURED TOBACCO CO.
LOUISVILLE, KY

FOR SALE CHEAP.
GLASS for Greenhouses, Conservatories, Hotbeds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. THE REED GLASS & PAINT CO., 456 W. Broadway, NEW YORK.

EXCELSIOR
CARNATION SUPPORT



OVER TWO MILLION IN USE.

SOUTHPORT, CONN., Aug 31, 1898.
Mr. H. F. Littlefield,
Dear Sir:—We have bought thus far about 25 000 of your Excelsior Carnation Supports and consider it one of the best yet introduced We will want 5000 to 10.000 more this year. Very truly yours.
EDW. J. TAYLOR.

PRICES—To test the value of this adv., we will, if you mention this paper, send you 100 any length we make for 75c.; 1000 either 10 or 13 in. long for $6; 1000 either 18 or 20 in. long for $7.

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Chrysanthemums are plentiful now, in white, pink and yellow. Bergmann still hangs on and we are getting some good Robinson; Ivory will be ready to cut very soon. In pink, Glory of Pacific takes the lead and some good sized blooms of Rose Queen are being sent in, but are rather washy in color. Marion Henderson and Gold Lode are the only yellow ones in the market at this time.

Roses and carnations are in good supply and the quality is still improving. The same can be said of violets, both single and double.

The last exhibition of the Horticultural Society, October 20, brought out a good showing of plants and blooms. Everyone made an extra effort to have the last regular show a good one, and were successful.

Trade fell off slightly last week owing to the inclemency of the weather.

A. H. L.

Lockland, O.

W. K. Partridge, formerly in the employ of J. M. McCullough's Sons, of Cincinnati, has embarked in the florists' business, having succeeded F. Pentland, one of the oldest florists in this section. With a range of six well built and splendidly equipped houses as well as with a thorough knowledge of the business, Mr. Partridge's venture promises to be of the most successful sort. Cut flowers and bedding stock are his specialties and his stock appears to be in the best of condition. While catering to the retail trade, it is Mr. Partridge's intention to keep also in touch with the wholesale market.

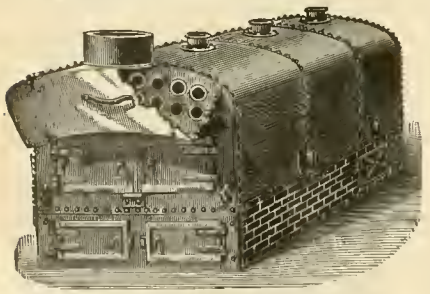
HOMO.

EUCLID, OHIO.—E. H. Cushman has been made chairman of the committee which will arrange for the meeting here in December of the State Horticultural Society.

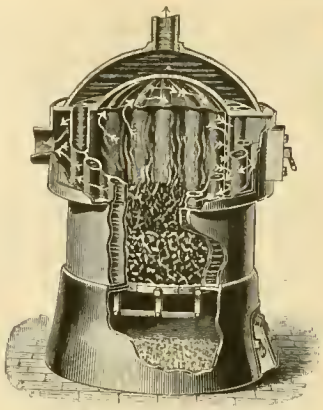
BROCKTON, MASS.—Arrangements have been perfected for the forthcoming exhibition of the Gardeners' and Florists' Club. B. Ellis Eaton has been appointed superintendent and R. M. Grey, gardener at the Oakes Ames estate, will serve as one of the judges.

SO. WEYMOUTH, MASS.—The old established Weymouth Fair, which opened September 29 was successful as usual. Entries in the flower and plant department were numerous and the quality of the exhibits very good. W. J. Stewart acted as judge in this department.

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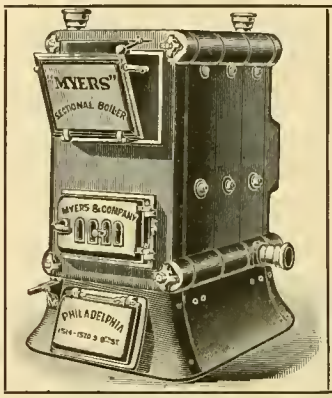
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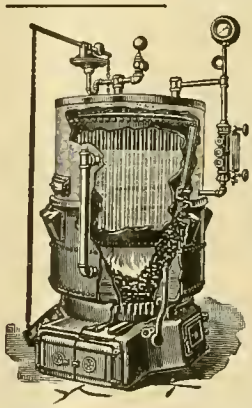
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FLOWERS FRESH FOR FALL FETE.—TRADE STARTS IN BRISKLY—STOCK IN FINE SHAPE.—NO SHOW THIS YEAR.

The first killing frost of the season came the night of October 17. We were glad to have cold weather hold off until after the Mountain and Plain Festival. The first day's procession included decorated carriages; one in grape vines with the fruit took first prize. The swell affair of the entire carnival was the ball of the "Slaves of the silver serpent," which occurred the second evening and created a lively demand for flowers.

Fall trade has opened well and the stores show good Beauties, fair tea roses and now the chrysanthemums are in good shape. Mrs. E. G. Hill, The Queen and Bonnaffon are among the best shown so far in quantity. We shall have no show this fall. Show plants cost too much to pay except in larger cities. G.

Erie, Pa.

Mrs. W. Niemeyer, who has done an extensive retail plant and cut flower business for the past forty years, has sold her greenhouses to Leonard Spoden and Frank Hanson, of Fredonia. These gentlemen have been very successful at the trade and will no doubt make the Erie florists hustle.

E. C. Hill has rented a place on State street and will open a flower store about November 1.

The Schluraft Floral Company has added three new houses, also a new hot-water boiler, to their plant.

John Trost has built two new houses this fall for growing plants. V. L. S.

PADUCAH, KY.—On the occasion of the opening of the new dry goods store of The Hays, Foster & Ward Company, C. L. Brunson & Company furnished an elaborate decoration of palms, smilax, asparagus and floral work; also 1100 roses, all of their own cut, which were given away as souvenirs.

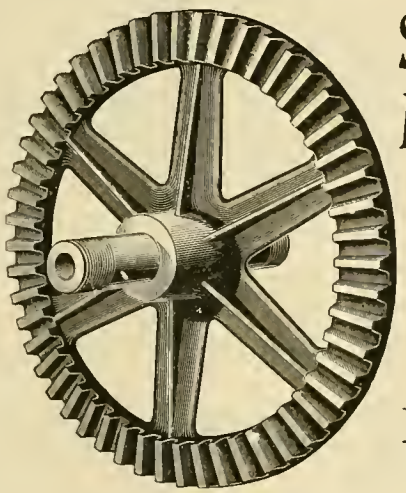
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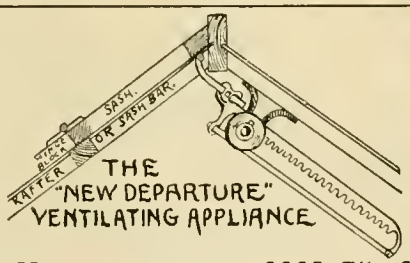
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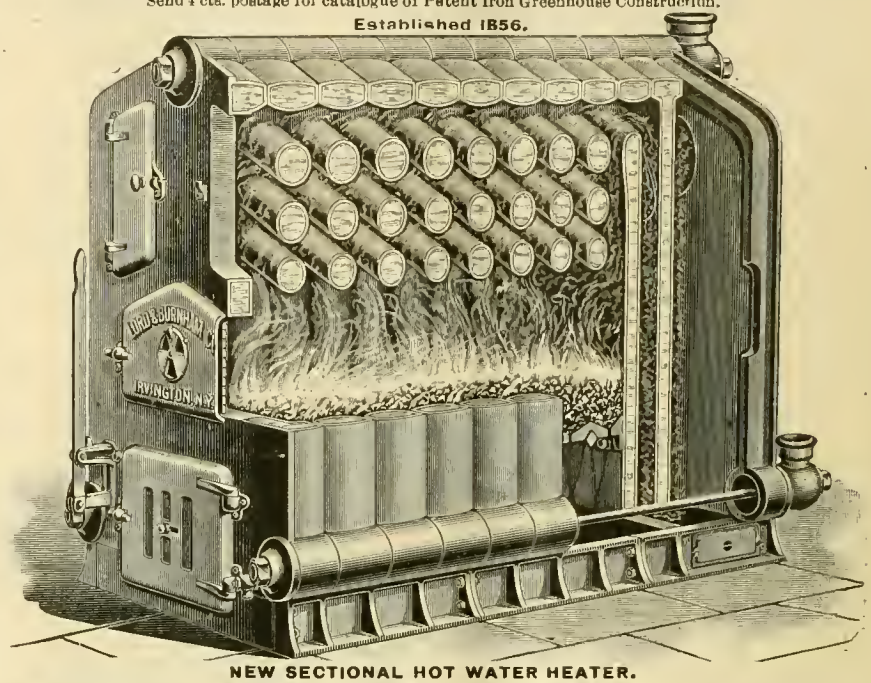
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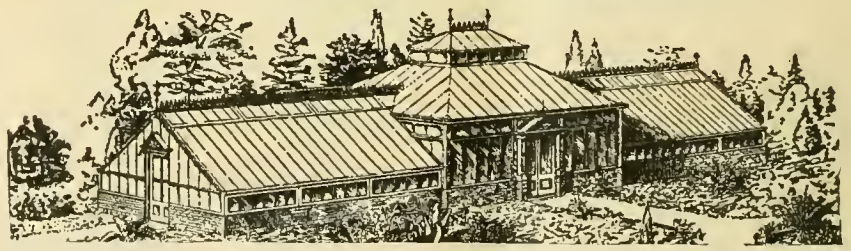
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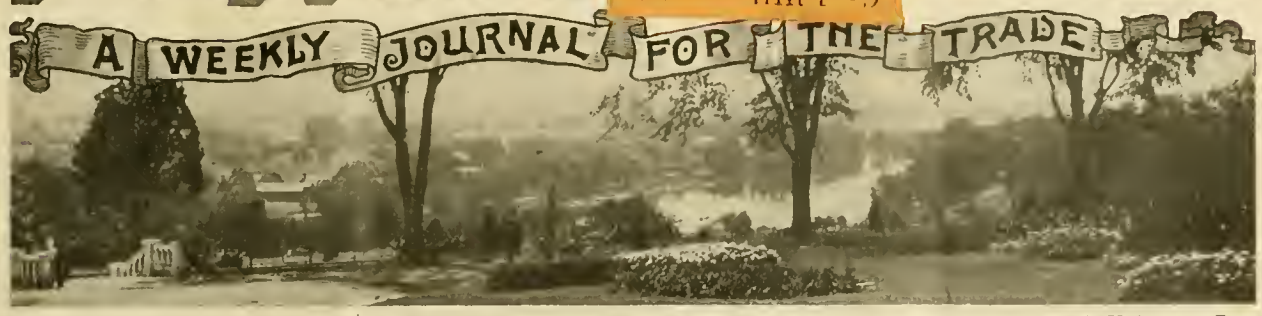
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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fifteenth annual meeting will be held at Detroit, Mich., August, 1899.

OFFICERS-ELECT [to be installed Jan. 1, 1899]. W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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Are Flower Shows Beneficial to the Trade?

[Paper read by J. T. Anthony in opening the discussion at the Chicago Florists' Club, Friday evening, November 4.]

Are flower shows beneficial to the trade? This is a question affording but little chance for argument, as there is practically no difference of opinion on this subject among the well informed of those connected with the trade. We all know that there has been a remarkable, I may say wonderful, improvement in chrysanthemums in the ten or fifteen years since they were adopted in this country as the one principal show flower. Would it have been possible to have brought the flower to its present perfection in any way except through the general competition for premiums offered at our floral exhibitions?

We often hear growers complain that it does not pay as well to grow the fancy chrysanthemums which the trade now demands as it did to grow the flower years ago when the blooms commanded an average of about $2 per hundred. It is asserted that the increased cost of cultivation more than makes up for the higher prices now obtained. This may be true, but I believe it is also true that the poorer grade of chrysanthemums, grown as they used to be grown years ago, brings as good a price to-day as they did before the demand for fancy blooms was created. However, fancy stock is being produced in ever increasing quantities from year to year, while the cheaper grades are now almost obsolete in our market.

Carnations, which a few years ago occupied a rather humble position, being used by florists principally as a filler, or background upon which to display roses and other choice flowers, have come rapidly into public favor, until at present they nearly equal the rose in popularity. There can be no doubt that our exhibitions have been largely instrumental in bringing forward both the chrysanthemum and carnation. Not only have our shows aided materially in leading these two flowers to the high positions which they now occupy in public estimation, but they have also been of much value in fostering a love and appreciation for all other flowers.

Flower shows being, as we believe, beneficial to the trade, the question arises as to how we can best create a large public interest in these exhibitions. As the first step every member who is not already enrolled in the Chicago Horticultural Society should make haste to join. Every florist in Chicago should be not only a contributing member of the Horticultural Society but should be an active, working member; he should solicit his friends and customers to become members, for the society ought to have an enrollment of 6,000. If each one would do his share toward increasing the list of names we should soon have a society so strong that it would not be necessary to call upon our friends each year in our search for special premiums and to tide our shows over their financial shoals. We should all do our best to promote attendance at the exhibitions.

Our club is not in a position to help the Horticultural Society financially by offering premiums and, if we were better situated than we are at present, I would not be in favor of this club offering premiums, believing, as I do, that the club can use its money to better advantage to promote its interests and those of the Horticultural Society by employing it in other directions. This club, although composed only of those who are connected with the florist business, is primarily a social organization. It has been our annual custom to spread a banquet some evening during each show and much more could be done in this direction which would be of benefit to both our exhibition and our city. We should send out special invitations to all our friends in the trade to attend our show and banquet, the idea being to bring as many of the craft as possible to the exhibition.

Another thing which could be done by the Florists' Club, which, I think, would be highly appreciated by the officers of the Horticultural Society, would be the appointment of a reception committee whose duty it should be to attend the show to receive and entertain visiting florists. The name of every visiting florist and the address at which he is staying should be registered by this committee, which should be composed of the most widely known members of the trade. Members of this committee should be present during every hour the show is open and as many of them as possible should be on hand during the hours when there are most apt to be visitors from out of town. An arrangement of this kind would make it pleasant for the guests and would relieve the busy officers of the society from this duty. No one can better appreciate the value of a register of the addresses of visitors in the city than can the writer, who has spent much valuable time in search of those whom some one wished to find but whose hotel or host was unknown. If they were registered friends could be directed to them without trouble or delay.

The Florists' Club should be represented at the show and I think the work of this committee should be performed by us, as from our number a committee could be appointed who would be better ac-

quainted with visiting florists than are members of the Horticultural Society, and also because this work in the past has, in a manner, been done by the officers and employes of the Horticultural Society, although largely for the benefit of the Florists' Club and its members. We should take hold of this matter and do the work in such a manner as to redound to the credit of our club and the Chicago Horticultural Society.

Nymphaea Richardsonii.

The accompanying illustration shows this new hardy double white nymphæa quite impartially. It is if American origin, having as its pistilate parent the common N. tuberosa. It partakes of the color, and to a great extent of the habits, of that variety, but is somewhat larger, blooms more freely and submits with greater willingness to cultivation. However, the winning point which so readily characterizes it from all other nymphæas is its numerous petals. From eighty to one hundred perfect petals may be counted on a good sized flower, making it by far the most double of any nymphæa we have ever seen. This is a long coveted improvement with water lily lovers and this variety is doubtless the forerunner of a race that will become widely popular. GEO. B. MOULDER.

The Approaching Carnation Meeting.

[*Albert M. Herr, Secretary of the American Carnation Society, read the following paper before the Philadelphia Florists' Club on November 1.*]

This is a very large subject for a little fellow like myself to tackle and I trust you will take my size into account when you deal with the shortcomings of this paper.

The first and most necessary point in considering the approaching annual meeting of the American Carnation Society is to get the date well fixed in our minds: February 16 and 17, 1899. It looks a long way off now, but time flies and unless we take it by the forelock and keep just a little ahead of it, the meeting will be here and we not ready for it. Fortunately I know my fellow members of this club well enough to understand that I could not add one suggestion as to how they should treat the society socially during its sojourn in this city. I can, however, add a word of caution and I trust the club in general and every individual member of the club will take it to heart. Do not plan too much in the way of entertainment. This society meets at a busy time of the year, for business purposes and its members are all wanted at its sessions. This is quite as important as the date of meeting and we wish to fix it in our minds just the same.

I think I voice the sentiment of every member of the American Carnation Society when I say that I sincerely trust there may never be rivalry between the cities in which we meet to outdo each other in the way of entertainment, and thus have us eventually become a burden to the local club of the city in which we meet. As a society we prefer to have our meeting looked upon among the craft as a pleasant social event and to feel that the benefits derived by the members of the local club from our sessions and exhibition will almost or altogether balance their share in the meeting, exhibition and our entertainment.

We meet at a season when all carnation growers are busy with work and can ill afford a long stay from home. As a consequence we meet strictly for business purposes. Arrangements are usually made so that a half day, of the two days we are in session, can be devoted to visits to such growers as can be quickly reached. Experience shows us that a goodly number of those who attend remain for the Saturday following the meeting and spend the day among the growers. Then there are a few who will come a day or two ahead and make a pretty general canvas of the growers in and aronnd the city in which we meet. In view of this it will be well for us to all be prepared for critical visitors and our pride will lead most of us to make a special effort toward having our stock in the pink of condition when these men come aronnd. The result is the standard of excellence in the carnation will be raised a notch or two through these efforts, and this is one of the benefits derived from entertaining



NYMPHÆA RICHARDSONII.

the American Carnation Society, for after this notch or two has been put into the upward tendency of the carnation it will not likely be allowed to fall back.

Another great benefit of these meetings is the opportunity it affords local growers to rub shoulders with men from other sections, who grow for a different market. This personal contact brings out ideas and facts that never are reached in any other way. It therefore behooves all the members of this club who are interested in carnations to so arrange their affairs that they can attend the meetings. It would also be a neat thing to do if all those members of this club who are especially interested in the carnation were to join the society and take an active part in its discussions and business. Membership costs but $2 per year and there is no fee for initiation. Do not let this little hint keep you away if you do not care to join, for we are a liberal minded body and throw our doors open to any one connected with the trade; grower, wholesaler, retailer, all are invited and all are welcome.

The papers for the coming meeting are not voluminous but will cover some interesting ground. There will be one by Prof. Britton on commercial fertilizers and their relation to the growing of carnations; one, and possibly three, by growers of indoor carnations; and one by our own Mr. Kift on carnations from the retail point of view. In addition to this there will be a question box open to members and any knotty problems we may want solved can be forwarded to the secretary or brought to the meeting with the assurance that they will receive careful consideration.

The exhibition is held during the two days of the meeting and all entries should be forwarded to the secretary at least ten days before the exhibition, and all exhibits must be staged by 11 a. m., February 16, or they will be disqualified. These are very important items and should be fixed in our memory as they are not paper rules, but rules that have to be lived up to and obeyed to the letter in order to avoid confusion and the interference of the exhibition with the business sessions. The premium list will be ready for distribution by December 1 and will be mailed to any one who applies, no matter whether they are members or not; all intending exhibitors should bear this in mind and send their names to the secretary at once.

Our exhibitions have been second in size only, to the chrysanthemum shows of the fall, and fully as well appreciated by the general public. By carnation enthusiasts they are looked upon as each one better than its predecessor and perfect marvels in the way of progress. There is no reason why this exhibition should not be far ahead of any of the preceding ones and there is every reason why it should be ahead of them. In the first place the premiums offered by the society are no mean ones, but represent quite a nice outlay in good cold cash, beside a few in the way of trophies, and the outside premiums this season cover all the ground that can be taken up.

Perhaps the first one of these to be considered is the cup offered by E. H. Michel, of St. Louis, for the club winning the highest number of premiums in the whole exhibition. This will be awarded by points, so many for first prize, so many for second, and in the same way for certificates and special premiums. This will be a feather in the cap of some club, and one well worth winning. Another award that ought to bring out a good exhibit will be that of the medal offered by the S. A. F. for the best six vases, twenty-five blooms each, of six varieties, introductions of 1897 and 1898. The grower who wins this will have double honors and such as have never been offered before.

From a money point of view the most valuable prize of the lot will be the vase offered by the Rookwood Pottery. This will be a gem and is to go to the grower who is fortunate enough to have the best three vases, fifty blooms to each, of scarlet, pink and white, three varieties. Frederick A. Blake, of Rochdale, Mass., has $10 to be divided into three premiums for his new carnation, Bon Ton. Richard Witterstaetter, of Sedamsville, Ohio, has a like amount to be divided into two prizes for his new Evelina, John N. May, of Summit, N. J.; offers $5 for the best twenty-five scarlet and the *Florists' Exchange* offers a like amount for the best red seedling to be named Charlotte. The AMERICAN FLORIST has offered $10 toward the general fund and others are to be heard from.

The society is making an innovation in the way of an award by offering a vase for the most artistic arrangement of carnations, with foliage or otherwise, said arrangement to contain not over 100 carnation blooms and all other flowers excluded. It is to be hoped that this



PARK VIEWS IN GRAND RAPIDS, MICH.

award will bring out a good display and some new ideas in the use of carnations. If it does, this end of the exhibition will no doubt be well taken care of in the future.

The Cottage Gardens' cup this season goes to the best scarlet and this, in addition to the other premiums offered for scarlet, ought to make the show a red letter one (no joke intended). As a club we should take pride in winning as many of these trophies as possible and it is time to begin right now. We will have strong competition from other sections for I hear almost daily of some one who is coming from a distance and intends to exhibit.

We, as a club, should appoint a committee to meet the members of the society as they come in, conduct them to their hotels and see that they can reach the hall readily and without trouble. As the headquarters will be at the hall it will hardly be necessary to have one hotel designated, but it would be well to see if we can secure special rates for those who care to take advantage of them. We will also want a superintendent of the exhibition who will have charge of the arrangement of the tables and to whom all boxes and packages may be directed with instructions how to display the contents. We shall have to give up our club room to the society for two days and one evening or provide some other place of meeting, as it has always been customary for the local club to provide a meeting room and exhibition hall free of expense to the society.

Parks of Grand Rapids.

The parks of this city are under the control of a commission of three members with Wencil Cukerski as superintendent and city florist. The public gardens have never looked better than they have this year and they show that the right man is in charge.

John Ball Park, the largest in the city, contains 100 acres of woodland which nature certainly planned for a pleasure ground.

Lincoln Park, next in size, with its wealth of natural beauties and its well kept lawns, fine beds and large pavilion is a most attractive spot. Highland Park with its large trees, crystal streams and shady walks makes this a delightful breathing ground for another part of the city. Fulton and Crescent Parks are located in the most populous portion of the town. They are not large but excellently well kept. Lookout Park is a new outing ground situated on one of the hills that surround the Valley City.

HENRY SMITH.

A Philadelphia Chestnut.

Well, it has come to pass at last! After fifteen years more or less of agitation a Philadelphia grower has had the courage to put on paper, in the most profound manner, his and possibly the objections of all growers who sell their flowers in this city to a flower market. I say all the growers because he speaks of a discussion that took place a "day or two ago" and also says that under certain conditions "all growers will join hands" in the establishment of a flower market. In thus speaking for all, I presume "E. L.," who, like Davy Crockett, is always sure he is right before he goes ahead, has the authority to make these statements.

Since the advantages of the market system have so often been referred to and no reasonable objections have ever been offered, I always supposed there must be some obstacle, some serious drawback, an insurmountable something, that rose up invisibly and defeated the project. And now the secret is out at last! It is the soft, tender heart of the grower, who, fearing to offend a customer, would rather suffer great inconvenience than make himself liable to be placed in such an embarrassing position. His article states that "for a number of years there have been advocates for a flower market for the benefit of the growers." This is

the first time that I have heard that the market was for the benefit of growers exclusively. It would unquestionably be a great convenience, not only to them, but equally so to every one who handles their products.

The objections that "E. L." sees to a market are mere nothings. Man is a reasoning being and as soon as he is asked to step out of the beaten path he stops to think, and ponders and begins to work out objections, and by dint of this turning over and over the gray matter he often makes mountains out of mole hills. The wiseacres of England did not want Stephenson to run trains on his railroad because of the cattle that might wander on the track. The people in all the cities of this country were up in arms a few years ago against the introduction of the trolley system, yet in the short time of its existence it has revolutionized travel and city life in consequence.

Wherever markets pure and simple have been established they have been uniformly successful and the objections referred to are never mentioned. The Thirty-fourth street market in New York has grown from a handful of growers forced into an organization by the dealers, until it is a recognized factor in the flower business of that city. The Boston market is also a bright example of this plan and gives great satisfaction to both growers and dealers who enjoy its advantages.

Every large city in this country should have its wholesale floral center from which the retail trade could get its supply. New York City, together with its Thirty-fourth and Twenty-third street markets, has its center of commission men on Twenty-eighth street, where they stand practically as in a market, side by side, and where everything in season in flowers can be seen in the shortest possible time.

Philadelphia should have some such center—should have had it fifteen years ago—where all the flowers for sale that are sent to the city could be seen by all the retail dealers at an early hour in the day. They need not be under one roof but should be as near as possible in adjoining buildings.

It does not follow that when a market is established every buyer can have everything he sees or that the grower is obliged to sell out to the first man that happens along. A good salesman soon learns to know his customers and acts accordingly. There is nothing to hinder the use of the discretion that "E. L." talks about in his present dealing. He would not now sell out in the first store he entered, no matter how much the flowers were wanted. His other regular customers would be expecting and depending on their share of his stock and he would save it for them. As to the long or short credits, the man who pays his bills promptly is always given the preference and the grower who sells ever so little to doubtful customers does so after his cash, and more desirable, trade has been satisfied. The man who will sell his stock to undesirable customers when he could easily place it in good hands, simply because to refuse to do so would put him in an "embarrassing" position, had better think good and hard about the "expense and anxiety of the production of his commodities" and thereby cultivate the necessary nerve that will enable him to overcome this most distressing habit.

I venture to say, "E. L.'s" innuendo to the contrary notwithstanding, that the retail flower sellers of Philadelphia pay their bills as fully and as promptly as those engaged in the same business anywhere. I believe, however, that the opening of a flower market would have a tendency to bring the business nearer to a cash basis as so many more buyers and sellers would meet each other that neither would care to be bothered with small accounts and cash would be demanded and paid. ROBERT KIFT.

Wreaths on Easels.

The accompanying illustration is of a wreath recently sent by the Philadelphia Florists' Club to the funeral of one of its members. The flowers are arranged on a flat, crescent shaped, thirty-six inch wire form, the design being first outlined with palm leaves. The roses used were Carnots on one side and Beauties on the other. The tapering points were first made in two large sprays which were then laid on and finished at the bottom with long stemmed blooms. Orchids and Farleyense were used at the junction, as well as a few sprays of Clematis paniculata, tied in with the ribbon. The design was then attached to a six-foot easel. None of the roses were wired nor was the frame mossed. Six hours after making, the design was still in good condition, the quantity of rose stems together, after being well sprinkled, seeming to hold enough moisture to keep the flowers fresh a sufficient length of time. An assortment of easels should be in every florist's stock as they are very useful for the display of wreaths and similar designs. At least from one-third to one-half as much more can be obtained for a piece mounted in this way as for one sent plain and the cost for the easel is trifling.

K.

CHRYSANTHEMUMS.

SEEDLINGS AT PHILADELPHIA.

Seedlings for examination were out in force in Philadelphia, October 29, three coming from Maryland, one from Michigan and two from New Jersey—six in all. The two latter were from John N. May; one, No. 29, appeared to be a dwarf, compact grower, with a flower similar in form and color to Viviand-Morel, but hardly so large as that well-known variety. The other, named Meta, was in color white, with lemon shadings, similar in its colorings to Philadelphia. In form it is an incurved Japanese.

E. A. Seidewitz had two, one labeled Swern, pink in color and incurved Japanese in form. Another labeled John K. Shaw, from the same exhibitor, was a



WREATH ON EASEL.

beautiful delicate pink and also Japanese incurved.

A fine yellow, also from Maryland, exhibited by Wm. Paul Binder, was labeled Robert Halliday, named after one of Baltimore's most popular florists. In form it is very similar to Wm. H. Lincoln, somewhat flat, which may be described as a slightly incurved Japanese.

From Nathan Smith & Son, Adrian, Mich., came a beautiful light yellow, incurved Japanese, quite large, but by the retailers it was considered to have too long a neck.

By way of comment upon chrysanthemums in general, the mid-season varieties are as late as were the early and second early varieties coming into full bloom this autumn, which is no more than may be reasonably expected, because the season which caused the early ones to be late also retarded those which naturally come later.

A nobby single variety is attracting some attention in this city. I refer to Mizpah. It is field-daisy-like in form and size and magenta pink in color. It is one mass of bloom, establishing it at once as an ideal pot plant. When better known it will become a very popular variety for selling in pots. Gladys Vanderbilt seems to have caught on as a desirable variety to grow for cut flowers.

According to the *Gardening World*, London, the variety exhibited at Philadelphia labeled Soliel d' Octobre and October Sunshine is of European origin. No matter where it originated, it is a grand good variety. The English journal has this to say in reference to the matter:

Soliel d' Octobre has been brought before the floral committee of the National Chrysanthemum Society of Great Britain several times, but it has been passed over or accorded the polite "The committee wish to see this again." The first-class certificate long delayed, was, however, awarded it on the 11th ult., when it was shown by Mr. W. J. Godfrey. It is a sure sign that there is something good and reliable in a variety when it is shown time after time, so uniformly good as Soliel d' Octobre has been, and I should strongly recommend all amateur cultivators who like easily cultivated varieties not to lose sight of this one. To quote a well-known grower's words, "It comes good anyhow," and the varieties of which this can be said are all too few. The flowers themselves are of great size, the florets being long, rather narrow and drooping, and bright yellow in color."

European varieties are eligible to be examined under the auspices of the C. S. A. with the object in view of scoring them for a certificate, just the same as are varieties raised in America. This is certainly a valuable novelty but it occurs to the undersigned that when entered for examination all varieties should be entered as sports or seedlings of American origin, or sports or seedlings of European origin.

P. A. D.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The committees judging new seedlings will be in session November 5, 12, 19 and 26. Exhibitors should make their entries (for which a fee of $2 is charged for each variety entered) to the secretary not later than the Tuesday of the week the blooms are to be shown. Express charges prepaid and forwarded to any of the following addresses, exhibits will receive careful consideration.

Boston, Mass., A. H. Fewkes, Horticultural Hall, Tremont street.

New York, N. Y., E. Dailledouze, care of New York Cut Flower Co., 119 West Twenty-third street.

Philadelphia, Pa., A. B. Cartledge, 1514 Chestnut street.

Cincinnati, O., R. Witterstaetter, care of Cincinnati Cut Flower Company, corner Fourth and Walnut streets.

Chicago, Ill., C. W. Johnson, care of Illinois Cut Flower Co., 51 Wabash avenue.

WORK OF THE COMMITTEES.

Philadelphia, Pa.—Wm. Paul Binder, Rider, Md., exhibited Robert Halliday, Japanese, yellow; scored commercial scale 89, exhibition scale 87 points. John N. May, Summit, N. J., exhibited No. 29, Japanese, pink; scored commercial scale 79 points. The same grower exhibited Meta, Japanese, incurved, white, lemon shading; scored commercial scale 90, exhibition scale 87 points. Nathan Smith & Son, Adrian, Mich., exhibited No. 57, Japanese, incurved, light yellow; scored commercial scale 84 points. E. A. Seidewitz, Annapolis, Md., exhibited Swern, Japanese, incurved, pink; scored commercial scale 83 points. The same grower exhibited John K. Shaw, Japanese, incurved, pink; scored commercial scale 92, exhibition scale 86 points.

Boston, Mass.—John N. May, exhibited Meta, Japanese, incurved, light straw yellow; scored commercial scale 87, exhibition scale 86 points.

Cincinnati, O.—Wm. Paul Binder exhibited Harry A. Parr, Japanese, lemon yellow; scored commercial scale 81 points.

ELMER D. SMITH.

CARNATIONS.

CULTURAL NOTES.

November 5.—It is not uncommon at this season of the year for some growers to find more or less of the disease commonly known as "carnation spot" among their plants. This is easily distinguished as it forms a distinct light brown patch upon the leaves and where it is especially bad it can be found on the flowering stems as well as on the leaves. The result is that the affected leaves dry off and die. Affected stems may live for some time but they will produce inferior flowers and it is only a matter of time until they will follow the leaves. Next to stem rot this is the most injurious disease that affects the carnation.

The cause of the spot is usually an excess of moisture among the foliage of the plants and it will be quite prevalent where the watering and syringing is left to inexperienced help. The check resulting from planting in makes the plants susceptible to disease and if too much moisture is given them a few dark days will bring this trouble on in full force.

Fortunately the cure is simple and effective. Personally I am not in favor of deluging the plants with a liquid fungicide of any kind; neither am I in favor of clogging up the pores of the leaves with any sort of a powder remedy, although in extreme cases a judicious use of a good fungicide might be not only advisable but necessary to save the stock. The first and most important part of the cure is to keep all moisture from the foliage, applying the water necessary to the plant between the rows without wetting the leaves. Do not imagine that if the day is bright the water will all be evaporated from the plant by night, for no matter how bright the sun may be it will not get all of the water out from the base of your plant before night and right there is where the trouble will commence. If there is a sign of the spot keep the plants absolutely dry. It is a good plan to syringe your plants once a month in order to keep the foliage clean but always choose a clear day.

In addition to keeping the plants dry it will be well to have a little heat on the houses so as to dry out the atmosphere and allow plenty of ventilation to be put on; then sulphur can be applied without injury. A good method of doing it is to mix it with linseed oil to the consistency of thick paint and then treat the steam or hot water pipes with it, renewing the application about every ten days. Sulphur, while a help in eradicating the spot, is a preventive of a number of fungus diseases and, therefore, should be a part of winter culture. In a house eight feet wide put a dash of it twenty inches long on the pipe and then skip about ten feet before putting on another dash, applying it to but one pipe. In a house twenty feet wide skip only four feet between dashes and in a wider house one whole pipe might be painted on one side, but too much will give you a sorry looking lot of carnations.

We are told that the growing of carnations under glass all summer will eradicate rust from a variety. This I know to be a fallacy, but I imagine that the intelligent culture of carnations indoors all summer would be a sure preventive of both stem rot and the spot. Unfortunately for myself I am not able to grow indoors such carnation plants as I want for winter blooming, but I have been able to keep disease away from my place by careful attention to the details of watering, syringing, firing, ventilation and the use of sulphur. There is but one excuse for heavy syringing in the houses and that is when red spider gets headway. In this case it is a choice of the least of two evils.

ALBERT M. HERR.

New York.

TRADE CONDITIONS SEEM TO IMPROVE.—CUT OF ROSES REDUCED.—VIOLETS SELLING MUCH BETTER.—A PAPER ON BULBS PROMISED.—A NEW TELEPHONE.

There is a dearth of news of general interest in the metropolis just at present. Among the florists—that section of the craft interested especially in the production and marketing of cut flowers—the main subject of comment has been the overstock and stagnation of the past few weeks and none are sorry to see October's last day. Hopefulness is now apparent and there is a general belief that the worst of the trouble is over and that hereafter the market will be better able to consume the daily receipts. Plant growers are serenely contented and confident, all indications pointing to a prosperous season for them. A disquieting feature this fall has been the very low prices at which palms of ordinary quality have been sold. An occasional and hitherto unheard-of sight is a wagon-load of palms of various sorts and sizes being peddled through the middle-class residential streets, the owner shouting the price, as is done with fruit and vegetables.

Receipts of flowers have relaxed some in quantity, roses especially showing a tendency to hold off, partially no doubt on account of the efforts of the growers, who have got tired of the work and expense of shipments on which it is impossible to realize. Chrysanthemums are still on the upward grade as regards quantity and quality, but prices show a disposition to go the other way. At best the prices received are but poor compen-

sation for the grower. Twenty to twenty-five cents is outside figure for best Robinsons. Violets are selling much better and values have advanced. Lily of the valley, ordinary brand, brings but $2 and the fancy, of which Carl Jurgens is sending a fine lot to John Young, brings $5 per hundred.

The pleasing announcement is made that at the meeting of the Florists' Club on Monday, November 14, Wm. H. Siebrecht will read a paper on "Bulbs." Mr. Siebrecht is not only one of our most successful bulb forcers, an experienced and observant florist, but is popular personally as well, and no doubt will be honored with a large and appreciative audience.

Rudolph Jahn, who recently opened a store at Forty-second street and Sixth avenue, has already closed up.

Most of the wholesale and retail establishments are signing for the new telephone which is soon to be in operation and which promises a relief from the extortionate rates charged by the old company.

The first longiflorum lilies of the season have appeared at John I. Raynor's.

Philadelphia.

TRADE CONDITIONS POINT TO BRIGHT PROSPECTS.—THE CROPS AND THE MARKET.—FLORISTS' CLUB AFFAIRS.—NOTES.

Things have taken on a roseate hue, as there has been a decided change for the better, which it is to be hoped will continue. The weather has been cool and bracing, and under its influence stock is much improved. Chrysanthemums are coming in a little faster than the market will take them; quite a list of varieties have been added to the assortment the past week. Ivory is now in, and was a great help for the All Saints' Day demand. Bonnaffon has arrived, as well as Minnie Wanamaker, Pink Ivory and Viviand-Morel. Prices are quite low. Pot plants are rounding up nicely; $3, $4 and $5 per dozen is the price in from 6 to 8-inch pots. Most of the stock has been planted out on the benches during the summer and potted about September 1. Some growers do well, however, with stock grown outside, the plants getting larger and bushier, but not holding their foliage as well nor producing such perfect flowers.

The rose crop is well advanced for the season, but the growers still bemoan the low prices. Kaiserins were never finer at this time of the year and Brides are having a hard time to catch up to them. Bridesmaids seem to be slow in getting up to their standard and very few have reached the $4 mark as yet. Beauties have taken a step up and $2 per dozen is asked for the best. Carnations are improving and Victor, Flora Hill, Scott and Triumph are seen in good form and the best bring $1.50 per hundred. Violets are now presentable and the retail storekeeper has laid away his stock of excuses except, "Yes sir, you will find them very fragrant in a warm room," which generally lasts the season out.

Palms and other house plants are moving fairly well. There is a good demand for the Boston fern. Great care should be used in transporting this variety, as so many plants are rendered unsalable on account of the tips of the fronds becoming damaged by careless packing or being whipped about by the wind in an open wagon.

The Florists' Club meeting last Tuesday was fairly well attended. Albert M. Herr's paper was a strong and forceful document and contained much of interest to the carnation growers of this vicinity. The chrysanthemum show of next week received some attention and it was resolved to keep open house next Wednesday evening. There will be something for the inner man and cigars to cloud the atmosphere. Everybody in the trade is to be made welcome. No tickets will be required and a good time generally is expected. The show promises to be a good one and quite up to the standard of the past few years.

H. Bayersdorfer & Co. now have wild smilax in stock at all times, which will be a great help to the decorators with hurried orders.

K.

Boston.

ANNUAL ELECTION IN THE CLUB.—A PAPER ON CHEMICAL FERTILIZERS.—STATE OF TRADE.—IMPROVEMENT NOTED.—RARE SHRUBS AND ORCHIDS AT HORTICULTURAL HALL.—JACKSON DAWSON ROBBED.—THE YELLOW LOTUS AT PEABODY.—CHRYSANTHEMUM SHOW NEXT WEEK.

On Tuesday evening the Gardeners' and Florists' Club met and elected officers as follows: President, Wm. H. Elliott; vice president, Robert Cameron; secretary, W. K. Wood; treasurer, Edward Hatch. Andrew H. Ward was the essayist of the evening, his subject being "Commercial Fertilizers." He read a carefully prepared and very interesting paper on the effects of fertilizers in various chemical combinations upon the soil and crops. He advocated using soda instead of potash and asserted that if this were generally done its effect would be to break up the syndicates that now control all the potash fertilizers. Nitrogen, he further claimed, which is usually regarded as an expensive ingredient, is cheaply obtained in nitrate of soda and in several other ways the replacing of potash with this chemical would be advantageous to the agriculturist and horticulturist.

Business conditions are somewhat improved since last week. The daily receipts of flowers have fallen off and it is probable that the worst of the fall avalanche is now over and that a steady, although slow, advancement may now be looked for. The quantity of roses, carnations and chrysanthemums coming in is still far out of proportion to the necessities of the local market. Outside demands are not yet sufficiently numerous or heavy to make much impression on the daily stock.

At Horticultural Hall on Saturday, Jackson Dawson was awarded certificates of merit for Euonymus Bungeanus and Ribes fasciculatus, two very showy fruiting shrubs. Cypripedium insigne var. Lutuycheanum, C. fascinator and Epidendrum conapseum were shown by Oakes Ames and from J. E. Rothwell came several pretty orchids, also R. and J. Farquhar & Co. received honorable mention for a new, very double pink Anemone Japonica. James Comley showed a collection of beautiful foliage of Japan maples.

On Thursday night while passing through Centre street, Jamaica Plain, Jackson Dawson was attacked and robbed of his watch and other valuables. The thieves, of whom there were two, struck him on the head, rendering him unconscious. They were captured on Friday by the Boston police. His injuries are very severe and the physicians say it will be some time before he can get out again.

The yellow lotus, Nelumbium luteum, has become thoroughly domesticated in Lake Winona at West Peabody and has already taken complete possession of over half an acre of the lake. The flowers make a grand display and attract great attention in the summer.

Preparations are now on for the annual chrysanthemum show, which opens in Horticultural Hall on Tuesday, November 8. Visits to a number of the growers are in order this week.

The Crowl Fern Co. have opened an office at 18 Chapman place.

Visiting Boston: A. M. Cheney, Orange, Mass.

Obituary.

DAVID D. GRIMES.

David D. Grimes, of the firm of D. S. Grimes & Sons, Denver, Colo., died October 20 from diseases contracted with the army operating about Santiago de Cuba, where, attached to the quartermaster's department, he participated in every action which led to the capitulation of that stronghold and the end of the war.

It was while carrying ammunition to Col. Roosevelt's Rough Riders in their famous storming of San Juan that florist Grimes had several hairbreadth escapes. It was necessary that his wagons pass over a strip of exposed ground in full view of the Spanish riflemen and in the perilous journey one Mauser bullet passed through his hat and another cut his stirrup, his horse dying under him. A shell fell at his feet but fortunately did not explode.

The funeral was held from the home of the soldier's father, D. S. Grimes, just one month from the day of his arrival home and was attended by Odd Fellows Lodge No. 56, Canton Navago No. 10, and Silver State Lodge, Knights of Pythias, of which the deceased was a popular member. The floral offerings were profuse and very beautiful, especially those from Daniels & Fisher and the Park Floral Company.

CHARLES HUSCROFT.

Chas. D. Huscroft died at the Wheeling hospital, October 27, in his 21st year. Two weeks before he underwent an operation for appendicitis and seemed at first to have rallied from the effects, but suffered a relapse, and grew steadily weaker. Deceased was born in Steubenville, Ohio, December 13, 1877. He was a young man of integrity, uprightness and sterling worth and these traits of character won him hosts of warm friends. Two years ago he moved with the family to Wheeling, W. Va., and became a member of the florist firm of Huscroft Bros. He is survived by his parents, four brothers and two sisters. The remains were taken from Wheeling to Steubenville to the residence of George L. Huscroft, at Eighth and Market streets, whence the funeral took place October 29.

SCHENECTADY, N. Y.—J. W. H. Grupe, on November 1, removed to 126 Wall street.

ADRIAN, MICH.—N. Smith & Son have opened an attractive flower store on South Main street.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.
Subscriptions accepted only from those in the trade.

Advertisements, 10 Cents a Line, Agate $1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

As we go to press we receive by wire news of the death of S. B. Parsons, of Flushing, N. Y.; killed by train.

THE Commissioner of Internal Revenue has decided that the Florists' Hail Association is not exempt from taxation, the law only applying to mutual fire and life associations.

COMMISSIONER FERD. W. PECK has secured additional space for the United States at the Paris exposition and 4,800 square feet will be allotted to horticultural exhibits.

FLAMMARION, a French astronomer, in experiments in growing plants under different colored glass at Juvisy, near Paris, has discovered that under red glass plants attain a wonderful growth while under green they do very poorly and under blue almost perish. However, in red light the forms produced are far less desirable than those obtained in the ordinary way.

Reports Renewed Interest.

A renewed interest is being manifested in the Florists' Mutual Fire Insurance Association, the membership of which is rapidly increasing. After the first assessment it will probably dawn upon the mind of the trade that they can save some money by joining the F. M. F. I. A.

JOHN G. ESLER.

Awoke and Heard the Hail.

ED. AM. FLORIST:—How many of your readers have awakened in the night and heard the hail knocking in the glass? I did, on September 15. "Oh! That's awful," said my wife. "It's not nice," said I, "but don't be unduly alarmed. It's all insured in the Florists' Hail Association and as soon as I make proper proof of my loss Treasurer Herr will send me a check." And he did; for $125.40.

GEO. M. KELLOGG.

Catalogues and Cut Flower Price Lists Received.

Kroeschell Bros. Ice Machine Co., Chicago, Ill., refrigerating machine; Jackson & Perkins Co., Newark, N. Y., lily bulbs; J. C. Suffern, Voorhees, Ill., seed corn; J. C. Schmidt, Erfurt, Germany, general seed list; Caldwell The Woodsman Co., Evergreen, Ala., decorative supplies; Ketten Bros., Luxemburg, (Grand Duchy) roses; Garaway & Co., Chantry Road, Clifton, England, trees and shrubs; Little & Ballantyne, Carlisle, England, trees and shrubs; Fred. Burvenich, Sr., Gentbrugge (Nord)—lez-Gand, Belgium, trees and shrubs; Jacques Rolland, Nines, France, seeds; Cincinnati Cut Flower Co., Cincinnati, Ohio, cut flowers; Welch Bros., Boston, Mass., cut flowers; W. A. McFadden, Cincinnati, Ohio, cut flowers.

Greenhouse Building.

Pleasantville, N. Y.—H. H. Ruland & Son, one greenhouse.

Marion, Ill.—Wash. Kreager, one greenhouse.

Sycamore, Ill.—F. E. Boynton, two houses each 25x100, one house 10x60.

Butte, Mont.—Law Bros. & Day, six houses, 20x105. L. A. Brouillard, rebuilding one house.

Milbury, Mass.—W. E. Horne & Sons, one house 18x58.

Chester, Pa.—J. H. Brinton & Smith, two carnation houses and one mushroom house each 20x100.

Connelly, Pa.—John Neidlinger, one greenhouse.

Salisbury, Pa.—Kroninger Bros., one house 43x156.

Reading, Pa.—S. H. Bitler, one greenhouse.

Mayville, N. Y.—A. T. Baldwin, one commercial house.

Coming Exhibitions.

[Secretaries are requested to supply any omissions from this list.]

BOSTON, Nov. 8-11. Chrysanthemum show, Massachusetts Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

BROCKTON, MASS., Nov. 16-18. Chrysanthemum show, Florists' and Gardeners' Club. Walter E. Baker, Sec'y.

BUFFALO, N. Y., Nov. 9-11.—Chrysanthemum show, Buffalo Florists' Club. Wm. Legg, Sec'y, 1440 Delaware Ave.

CHICAGO, Nov. 8-12. Chrysanthemum show, Hort. Society of Chicago. Willis N. Rudd, Ass't Sec'y, Room 202, 185 Dearborn St.

ELMIRA, N. Y., Nov. 15-16. Chrysanthemum show, Elmira Hort. Society. R. R. Stockdale, Sec'y.

EVANSVILLE, IND., Nov. 8-12. Chrysanthemum show, Evansville Press Club.

GERMANTOWN, PA., Nov. 7. Autumn exhibition, Germantown Hort. Society.

HARTFORD, CONN., Nov. 8-10. Chrysanthemum show, Connecticut Hort. Society. C. M. Rodgers, Sec'y, Beacon St., Hartford.

INDIANAPOLIS, Nov. 8-12. Chrysanthemum show, State Florists' Association of Indiana. R. A. McKeand, Sec'y, Garfield Park, Indianapolis, Ind.

MILLBROOK, N. Y., Nov. 10-12. Chrysanthemum show. Millbrook Hort. Society. J. O. Pingry, Sec'y.

MT. KISCO, N. Y., Nov. 10-12. Chrysanthemum show, Bedford Floral Club.

NEWPORT, R. I., Nov, 15-17. Chrysanthemum show, Newport Hort. Society. J. J. Butler, Sec'y, P. O. Box 213.

PHILADELPHIA, Nov. 8-12. Annual exhibition, Pennsylvania Hort. Society, David Rust, Sec'y, Horticultural Hall, Broad St. below Locust.

PORTCHESTER, N. Y., Nov, 11-12. Annual chrysanthemum show, Westchester Gardeners' Association.

PROVIDENCE, R. I., Nov. 9-11. Chrysanthemum show, Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St., room 23.

ST. LOUIS, Nov. 8-12. Chrysanthemum show, St. Louis Florists' Club. Emil Schray, Sec'y, 4101 Pennsylvania Ave.

SYRACUSE, N. Y., Nov. 10-12. Chrysanthemum show, Central New York Hort. Society. D. Campbell, Sec'y.

TORONTO, Nov. 9-12. Chrysanthemum show, Toronto Gardeners' and Florists' Association. E. H. Carter, Sec'y, Riverside Park, Toronto.

WACO, TEXAS, Nov. 10-12. Chrysanthemum show, Texas State Floral Society. Mrs. Louis Crow, Sec'y, Waco, Texas.

WORCESTER, MASS., Nov. 8-9. Chrysanthemum show, Worcester, County Hort. Society. Adin A Hixon, Sec'y, Horticultural Hall, 18 Front St.

Chicago.

SHORT SUPPLY OF BOTH STOCK AND LOCAL BUYERS.—SHIPPING TRADE VERY GOOD.—PRICES ARE FIRM WITH FINE FLOWERS BRINGING GOOD FIGURES.—CHRYSANTHEMUMS IN OVER SUPPLY.—SHOW PLANS PERFECT.—FLORIST CLUB DISCUSSES EXHIBITIONS, INSTALLS OFFICERS AND PLANS THE ANNUAL BANQUET.—JOTTINGS IN THE TRADE.

Owing to a variety of causes, the approach of election, the unfavorable weather, the business activity consequent upon the end of a month, what would otherwise be a decidedly short supply has been just a little more than enough to meet the demand this week. Shipping trade has been very fair, but in the last two days the supply of flowers has increased more rapidly than have orders.

Of roses the supply has been short and prices have been steady. Some very fine stock has come to market, one or two lots of Brides commanding 8 cents, with 6 cent blooms not infrequent. The prevailing price has been from 2 cents to 4 cents. Good Beauties have sold for $4 a dozen.

Carnations have been in under supply, particularly whites. Good flowers have brought from 2 cents to 3 cents with no fair stock going at less than $1.50 per hundred. It seems that the bulk of the planting this year was of pinks or reds and the fortunate grower who has a few houses of good McGowans or Flora Hill is on the "sunny side of easy street." One grower who has fifteen houses of carnations affirms that when a house brings him $3 per day he is making money and any house of whites should do that under present conditions.

Verily, this is the day of the chrysanthemum. The blooms have deluged the market this week and are the only flowers which have been in over supply. The blooms upon which a grower can make money at from $4 to $6 a hundred have sold readily at those figures although the fancy sorts have, as a rule, failed to find a demand which was adequate to repay for the care exercised in their production. Nevertheless, one dozen Solar Queens fetched $5, which is the top price of the year. It is estimated that the flower show next week will take 10,000 blooms out of the market, which should operate to stiffen prices somewhat. After that will come the deluge but by that time cold weather should have greatly stimulated the market.

Everything in connection with the show arrangements gives promise of the most successful exhibition on record. Superintendent Rudd is assured of extensive exhibits, probably the best in the history of the Chicago Horticultural Society, and the public interest and the very favorable location are in themselves sufficient to guarantee a very large attendance. All that can now be desired is weather the antipode of that of jubilee week.

The new officers of the Florists' Club were installed with due eclat at the meeting last night. The discussion was upon the subject of the benefit of flower shows to the practical florists and was opened by J. T. Anthony.

The committee of the Florists' Club has arranged for the annual banquet at the Sherman House, next Thursday, November 10, at 8 p. m. Tickets are on sale at all the wholesale houses at $2 each.

Kroeschell Bros., who have been selling boilers to florists for many years, also manufacture refrigerating machines and are receiving many inquiries as to their practicability for florists who are weary of paying ice bills. One Chicago grower and wholesaler has virtually decided to put in a cooling machine next spring.

J. A. Budlong returned a few days ago from a three months' tour of the east. He made most of the trip to Providence, R. I., his old home, upon his bicycle and wheeled over 3,000 miles during the time of his absence, visiting most of the cities and resorts on the eastern coast north of New York.

George F. Crabb, of Grand Rapids, has been in town this week and states that probably ten of the Florists' Club of his city will visit the Chicago show next Thursday.

Arthur Reeves, son of Jos. Reeves, with Andrew McAdams, of Fifty-third street, met with a serious accident October 24 in having his collar-bone badly fractured by a fall.

A. Nelson, representing the F. R. Pierson Co., Tarrytown, N. Y., has been a visitor this week. Mr. Nelson recently returned from a business trip to Europe.

Bassett & Washburn have offered a special prize of $25 for the best basket of roses exhibited at the show, quality of flowers and arrangement considered.

J. A. Anderson has secured the flower booth for the sale of blooms in the show hall.

W. N. Rudd has a yellow sport of Mayflower which promises to be an acquisition.

Among the visitors the latter part of the week were J. H. Brumby, Benton Harbor, Mich., Chas. E. Neale, Worcester, Mass., and S. S. Skidelsky, Philadelphia.

Bulb Growing In America.

BY PROF. W. F. MASSEY, NORTH CAROLINA.

[*Read at the Omaha Convention of the Society of American Florists.*]

Americans have long been noted for their fondness for far fetched things. An article of any kind has been assumed to be better because imported from a foreign country. Years ago one of the leading seedsmen of an eastern city printed on all his seed packages "English Garden Seeds." His successor in the seed business has long ago learned better. Our growers have learned that, with many varieties of the seeds we cultivate, better results can be had from seeds grown in our own climate. But even now there is an impression abroad that seeds grown in this country are all better for being produced in the far north, and it is a common thing for seedsmen to advertise that their seeds are "northern grown." And yet only recently I met a gentleman in southern Georgia whose business is the production of seeds for a dealer in New York who sells only northern grown seeds, but who is wise enough to have certain kinds of seeds grown in the climate that suits them best. Georgia and California are beginning to make a reputation for flower seeds that will lead to the use of their product to the exclusion of the European in the near future.

We are gradually learning the varied capacity of our soils and climates, north and south, and are seeking to get the best, no matter where they are grown. We all remember well when no florist would have any tuberose bulbs but those grown in Italy, but now the tuberose industry has moved from Italy to North Carolina, and with the decreased demand for these, the North Carolina growers are fully able to supply the world with tuberoses. This decreased demand for the tuberose has made the culture rather more unprofitable and the men who control the tuberose output in North Carolina pay $2 per thousand for bulbs such as I formerly furnished to London houses at $60 per thousand.

I have for some years been endeavoring to get the bulb growers of eastern North Carolina to experiment with other and winter growing bulbs. So far the effort has not met with very great success, not because the bulbs cannot be grown, but because the growers have been inexperienced in the different methods of growing and curing demanded by hyacinths, narcissi and lilies, and because of the lack of capital to engage in the industry on a scale large enough to affect the trade.

In my experiments at the North Carolina Experiment Station I have been hampered by the indifference of those in authority. They can easily see the importance of experiments in farm products and cattle, but they fail to realize that there is money for their people in things of an ornamental character, and that there are people who will spend money for things they cannot eat.

Sometime since I sent to Messrs. Peter Henderson & Co., of New York., quite a large lot of Lilium candidum and wishing to ascertain the results from these bulbs after they got into the hands of the growers I wrote recently to the house. They replied that they were sorry that they had not kept up with the bulbs after they were sold, but that they were certainly very satisfactory, and they could see no reason why they should not have done as well at least as the French bulbs. These bulbs were thirteen inches in circumference and as solid as an apple.

At the same time the lily bulbs were sent to Henderson & Co. I sent samples of other bulbs. These were noticed in the *Garden and Forest*, and the editor remarked that no bulbs of equally fine appearance had been seen from Europe.

Latterly the Department of Agriculture, at Washington asked me to experiment with the Bermuda lily. At the time the only bulbs to be had were a few badly diseased ones of very small size. These were planted last fall. They grew healthily and made some bloom, and produced small but very clean and healthy looking bulbs, which were ripe and dug the last of July. The diseased condition of the original bulbs doubtless had something to do with this precocity, but we feel sure that after we have grown the Bermudas a while we can get them into a perfectly healthy condition, and can get them ready in full time for the early forcing.

In all the eastern section of North Carolina all the varieties of the narcissus do remarkably well. The polyanthus section has a reputation for tenderness, but I find that with proper treatment they are among the hardiest. If they are planted in the early fall, they start to grow at once and when our January cold comes they are hurt badly, but when the planting is deferred till the soil is cold, say about Christmas or the first of January, they remain below ground till the danger has passed and start off healthily in February, making fine bulbs.

The upland, red clay regions of the south are the best for the Roman hyacinths, and especially for the white Italians, which at Raleigh grow to the size of fine Dutch hyacinths. My Dutch hyacinths this year are finer than any of the new crop coming from Holland, which are rather inferior to their usual standard. But our people lack capital, and are not inclined to take hold of anything on which they cannot realize at once.

I have proven in a small way that the bulbs can be grown here, and grown to greater perfection than those imported, for the bulbs of L. candidum grown at our station have produced three times the number of flowers that were produced on imported bulbs growing alongside of them.

What we wish to accomplish is to get the Agricultural Department at Washington to divert some of the money now wasted in scattering turnip seeds all over the country to experiments here in bulb growing on a scale large enough to convince the dealers that we can grow them and thus induce them to invest capital in the industry in the southeast. North Carolina can grow the Bermuda lily as well or better than Bermuda. She has a fine soil and a climate better adapted to the proper ripening of the bulbs than has Bermuda, and all we need is someone to put money into the business here.

I have prepared this brief statement more as a suggestion to the florists assembled at Omaha, than as a history of what has been done here. Had time allowed I would have entered more fully into the subject, but at present am too badly crowded with work to do more than suggest that the South Atlantic coast country offers conditions more favorable for the bulb industry than any other part of the country.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By first-class fireman and steamfitter. Address Y N, care Am Florist.

SITUATION WANTED—By all-round workman on or before Dec. 1st. Good fireman, propagator, etc. Address N Y, care American Florist.

SITUATION WANTED—By experienced florist and grower fine roses, carnations, 'mums, violets; good designer. Best references. G. Bux 547, Alliance, O.

SITUATION WANTED—By English gardener, private or otherwise; age 32; thoroughly experienced in all branches of the profession.
H H H. care American Florist.

SITUATION WANTED—By first-class grower of cut flowers and plants with 20 years' experience; single. Fair wages expected.
K K. care H. Kuehlke Kansas City. Westport, Mo.

SITUATION WANTED—By first-class carnation and violet grower; good propagator, good grower in bedding stuff, good designer. Best references.
IRA P. HERSEY, 24 Atwood St., Newburyport, Mass.

WANTED—An offer to buy or lease six greenhouses; a fine chance for a practical florist.
4, 11, 44. care American Florist.

WANTED—An offer to buy or rent greenhouses in a good city of 60,000 inhabitants. A good chance for the right man Address J K, care Am Florist.

WANTED—Single man as assistant in greenhouse department of private place; must have good practical knowledge of orchid culture. Give particulars of experience, age, etc., and wages expected Address B R, care American Florist.

WANTED—A young active gardener, married; must understand vegetable raising, hotbed work and general outdoor gardening; house and fuel furnished free. Give references, age, number in the family and wages expected. Address No 5, care Am. Florist.

FOR SALE—Elegant florist's refrigerator, cheap; on view flower show. HIRSCHHORN,
46 Madison, Chicago.

FOR SALE CHEAP—Eighteen boxes A glass 16x16, never used. State price you will pay for same.
JOS. LADO, Joliet, Ill.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St, Springfield, Ill.

FOR SALE—One No. 17 Hitchings greenhouse hot water boiler, second-hand, price $60. One No. 24 Tobasco hot water boiler, used only four months, price $38. Address
GEORGE M. WITWER, South Bend, Ind.

FOR RENT—Two greenhouses, about 5000 feet glass, a good retail stand in city of Asheville, N. C.; also dwelling house if desired. Fine opportunity for a good tenant. Address
REV. H M. PARKER, James Island, S. C.

FOR SALE.

A well established and paying florist's business, with 10 to 30 acres of land, 17,000 square feet of glass. Good residence and houses for help. Situated near one of the largest cities in California. Ill health and desire to retire from business cause for selling. For full particulars address
LOCK BOX 720, Los Angeles, Cal.

FOR SALE.

A florist establishment for sale consisting of 13,000 square feet of glass, in good condition. Heated by steam; in the city limits, located in a city of 18,000 inhabitants on the Mississippi river in Iowa, with several acres of land and dwelling house. Must sell soon on account of old age. For further particulars address
IOWA, care American Florist.

Worcester, Mass.

Chrysanthemums were planted much less extensively than in former years but the supply is more than the demand and prices are much lower than last year. The best figure realized as yet is $3 per dozen and that is for extra good blooms at retail. Viviand-Morel, Yellow Queen and Woodford are now in condition to cut and Major Bonnaffon will soon be ready. Viviand-Morel, when well done, is still one of the best in pink. It seems that exhibition blooms and plants will be a trifle late for the various chrysanthemum shows in this vicinity.

Trade holds steady and the supply of general stock averages about same as last week with the exception of violets, which have shortened up considerably.

Of the newer carnations grown in this locality, Victor, Bon Ton and Alba Superba are showing up well. Victor seems to be a much more vigorous grower and more prolific than Daybreak.

A. H. L.

Nashua, N. H.

George E. Buxton has five very good greenhouses at his present location and is growing a fine assortment of general stock. He was in business twelve years on Vine street and in 1896 removed to Concord street where he has eight acres of fine land and his trade is thriving equally with his plants.

August Gaedeke & Brother purchased the establishment of Judge Hoitt in 1893 and have done a prosperous business ever since. This season promises to be the best they have experienced.

Charles H. Blake has 7000 feet of glass and reports a fine fall trade. He grows a general stock.

F. SANDER & CO., NURSERYMEN, BRUGES, BELGIUM

TELEPHONE No. 75
CABLEGRAMS FOR BRUGES SANDER BRUGES
ST ALBANS VANDA LONDON
AMERICA VANDA NEW YORK

AZALEAS, ARAUCARIAS, PALMS, BAY TREES A SPECIALITY



60, Vesey Street,
New York City,

October 25, 1898.

Mr. G. C. Watson,

Philadelphia.

My dear Sir:-

Re XL ALL, I could not give you much more information than that I told you the other evening. We use it extensively, and it annihilates the minutest thrips and bugs of all descriptions and after burning does not leave an unpleasant odor in the houses, like one experiences after the use of a tobacco fumigator.

The plants apparently do not suffer in any way, and in England its use is very extensive for many economic reasons; being easy to handle, and a rapid destructor of insect life. Excuse brevity. In haste,

Yours very truly,

A. DIMMOCK.

The above letter just received refers to the 'XL All' Fumigator advertised by me in the American Florist of Oct. 22. Kindly refer to same for prices and other particulars, or, send to the undersigned for circular.

G. C. WATSON, Juniper and Walnut Sts., Philadelphia, Pa.

THE
Advantages of Buying From Bayersdorfer

We have been canvassing the entire country from Boston to San Francisco annually for a third of a century,

So We Know What You Want

Our Mr. Bayersdorfer goes to Europe once a year to examine and select goods. We are ready to buy any desirable article manufactured in the United States.....

So We Know Where to Get It

We are the first in the field with novelties of intrinsic value. We buy heavily and pay cash.....

So We Can Make Lowest Selling Prices

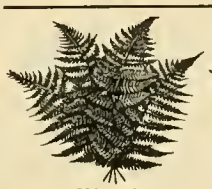
SEE?

You cannot buy equal goods for equal figures. We are ready to demonstate it! Write for descriptive lists and special fall quotations on all seasonable

FLORISTS' SPECIALTIES.

H. Bayersdorfer & Co.

50-56 N. 4th St., PHILADELPHIA, PA.



FANCY DAGGER

Hardy Ferns

WARRANTED FIRST QUALITY.

SPECIAL ATTENTION PAID TO SUPPLYING WHOLESALE DEALERS.

Write for Prices.

ALSO DEALER IN

BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES,

Etc., Etc., Etc.,

L. B. BRAGUE, - Hinsdale, Mass.

Oldest, Largest and Most Reliable Dealer in the United States.

Pittsburg Cut Flower Co. Limited

705 Penn Avenue, PITTSBURG, PA.

CHRYSANTHEMUMS.
LILY OF THE VALLEY.
CARNATIONS.
ROSES.
} Extra Fancy Stock.

Wholesale Florists.

Successful Growers

Know that they can dispose of all their Surplus Stock by advertising in the American Florist. TRY IT NOW.

A Few of the Seasonable SPECIALTIES which we are Headquarters for



Immortelles,
Capes,
Baskets,
Moss Wreaths,
Iron Plant Stands,
Metal Designs,
Wheat Sheaves,
(OUR FORT.)
Pedestals,
Pot Covers,
Wax Flowers,
Leaves,
Artificial Flowers,
Chenille,
Cycas Palm Leaves,
Wire and Foil.

The finest Catalogue ever produced in our line. Yours for the asking.

Send business card when writing for catalogue.

M. RICE & CO.

Exclusive Importers and Manufacturers.

25 N. 4th Street, PHILADELPHIA, PA.

BROCKTON, MASS., GARDENERS' AND FLORISTS' CLUB

Flower Show.

FIRST ANNUAL EXHIBITION, NOV. 16, 17, 18, 1898.

A LARGE display of Chrysanthemums is one of the things desired and good premiums have been offered to that end.

Entries are solicited.

Our Premium List sent upon application.

Canton Hall, one of the largest and most commodious in the city, has been secured. Good display room has thereby been attained.

All desirous or willing to compete for prizes are requested to notify

B. ELLIS EATON, Brockton, Mass.,

by November 9th stating the nature of the exhibit.

Remember the dates,

Nov. 16, 17, 18, 1898.

REED & KELLER.....

Florists' Supplies

122 W. 25th St., NEW YORK CITY.

Wholesale Flower Markets

CINCINNATI, Nov. 3

Roses, Beauties, select	15.00@20.00
" " medium	10.00@12.50
" Brides	2.00@4.00
" Bridesmaids	2.00@3.00
" Meteors	3.00@4.00
" Perles	2.00@3.00
Carnations	1.00@1.50
Lily of the valley	4.00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00
Chrysanthemums	8.00@15.00

ST. LOUIS, Nov. 3.

Roses, Beauties	3.00@20.00
" Meteors	2.00@4.00
" Brides, Bridesmaids	2.00@4.00
" Perles	1.00@3.00
" Kaiserins	2.00@5.00
Carnations	1.50@2.50
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Chrysanthemums	5.00@25.00
Violets, California	.50
" single	.25

MILWAUKEE, Nov. 3.

Roses, Beauties, long, per doz.	1.50@2.00
" " medium " "	1.00@1.25
" " short " "	.75@1.00
" Brides, Bridesmaids	3.00@4.00
" Perles	3.00@4.00
" Meteors, Kaserins	3.00@5.00
Carnations	.75@2.00
Gladioli	2.00@3.00
Smilax	12.50
Adiantum	.75
Asparagus	50.00

LOUISVILLE, Nov. 3.

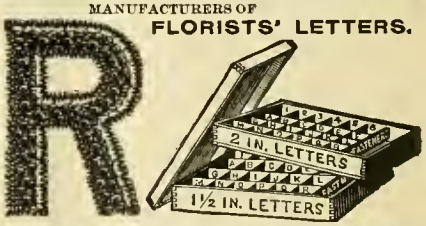
Roses, Beauties, per dozen	.75@2.00
" Brides, Bridesmaids	2.00@4.00
" Meteors	2.00@4.00
" Kaiserins	2.00@4.00
" Perles	1.50@3.00
Carnations, fancy	1.50@2.00
" common	1.00
Violets	.50@.75
Smilax, per dozen	1.25@2.00
Adiantum	.75@1.00
Asparagus, per string	.50
Chrysanthemums fancy per doz.	1.00@1.50
" com. " "	.77@1.00

We like to have you tell our advertisers that you read our paper.

Boston Florist Letter Co.

MANUFACTURERS OF

FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00.
Script Letters, $4. Fastener with each letter or word.
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,

84 Hawley St., BOSTON, MASS.

THE

Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

The "GARDENERS' CHRONICLE" has been FOR OVER FIFTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, much of the information furnished is of such general and permanent value, that the "GARDENERS' CHRONICLE" is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, $4.20 per year. Remittances to be made payable to H. G. COVE.

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An advertiser feels better when he knows he is getting direct returns for his money. Mention the AMERICAN FLORIST

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J. B. DEAMUD

51-53 WABASH AVE.

CHICAGO

—o—

CHRYSANTHEMUMS We claim to have, and we have, the best and largest assortment in Chicago. If the other man cannot supply you call on us. Our list is made up of fancy show flowers as well as a good selection of first-class market sorts.

PRICE LIST Per 100

Brides, Bridesmaids, Meteors	$2 to $4.00
Perles	2 to 3.00
Kaiserin	3 to 5.00
Carnations	1 to 1.50
Carnations, fancy	2 to 3.00
Valley	4 to 5.00
Asparagus, per string, 50c	
Smilax	10 to 12.50
Violets	60c to 75c
Common Ferns, per 1000,	1.50.....20c
Adiantum	75c to 1.00

P. & D. AT COST.

Reinberg Bros.

51 Wabash Ave, CHICAGO.

Wholesale Growers of **CUT FLOWERS**

Under 600,000 Feet of Glass.

We are Headquarters for AMERICAN BEAUTIES and can fill all orders on short notice.

WHOLESALE PRICE LIST.

	Per doz.
AM. BEAUTY, extra long stem	$3.50 to $4.00
" 24-in. stem.	2.50
" 20 "	1.50 to 2.00
" 15 "	1.25 to 1.50
" 12 "	1.00
" 8 "	.75
METEOR.....per 100,	$3.00 to $4.00
BRIDESMAID "	3.00 to 4.00
BRIDE..... "	3.00 to 4.00
KAISERIN..... "	3.00 to 4.00
PERLE..... "	2.00 to 3.00
CARNATIONS "	1.25 to 1.50
" fancy "	2.00 to 3.00

All other stock at lowest market prices. No charge for packing.

E. C. AMLING

Wholesale Cut Flowers

51 Wabash Avenue,

W. S. HEFFRON, Mgr. CHICAGO.

WHOLESALE GROWER OF ROSES. DEALER IN CUT FLOWERS.

J. A. BUDLONG,

37-39 Randolph Street. CHICAGO, ILL.

Wholesale Flower Markets

CHICAGO, Nov. 4.

Roses, Beauties, extra long, per doz	3.50@4.00
" " 24 inch " "	2.50
" " 20 " " "	1.50@2.00
" " 15 " " "	1.25@1.50
" " 12 " " "	1.00
" " 8 " " "	.75
" Brides	3.00@4.00
" Kaiserins	3.00@4.00
" Bridesmaids	3.00@4.00
" Perles	2.00@3.00
" Meteors	3.00@4.00
Carnations	1.25@1.50
" fancy	2.00@3.00
Lily of the valley	4.00@5.00
Adiantum	.75@1.00
Common ferns	.20
Smilax	10.00@12.50
Asparagus	40.00@50.00
Violets	.75@1.25
Chrysanthemums	6.00@15.00

VAUGHAN, McKELLAR & WINTERSON,

Wholesale Florists,

45-47-49 Wabash Avenue, - - - CHICAGO.

CUT FLOWERS AND ALL FLORISTS' SUPPLIES.

Orders booked now for XMAS..... HOLLY and BOUQUET GREEN.

See our Adv. of CYCLAMEN PLANTS elsewhere in this paper.

Mention this paper.

S. B. WINTER,

(Successor to WINTER & GLOVER,)

21 Randolph St., Chicago.

HIGH GRADE **CUT FLOWERS,**

PACKED RIGHT,

so they will reach you in just as good condition as they reach us.

WIRE DESIGNS: A Full Line. Write us for our Illustrated Catalogue.

...LOUISVILLE...

Florists' Supply and Exchange

Wholesale Florists and dealers in Florists' Supplies

Special facilities for shipping south. Unequalled returns for good stock. Open night and day.

520 W. Jefferson St., - LOUISVILLE, KY.

Successful growers become successful sellers when they advertise in the American Florist.

WIETOR BROS.

SUCCESSORS TO ROGERS PARK FLORAL CO.

Wholesale Growers of **CUT FLOWERS**

51 WABASH AVENUE,

Headquarters For American Beauties. CHICAGO

KENNICOTT BROS. CO.

WHOLESALE CUT FLOWERS AND FLORISTS SUPPLIES.

WIRE WORK A SPECIALTY. 88 WABASH AVE. CHICAGO.

Bassett & Washburn

88 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

A. L. RANDALL

Wholesale Florist

Don't Forget that we are at 4 Washington St., Chicago.

Write for special quotations on large orders.

Lynch WHOLESALE FLORIST.

19-21 E. RANDOLPH ST. CHICAGO

A. G. PRINCE & CO.

Wholesale Cut Flowers

AND FLORISTS' SUPPLIES.

Agents for the Hinsdale Rose Co. Special attention paid to shipping orders.

88 & 90 Wabash Avenue,

Telephone Main 3208. CHICAGO.

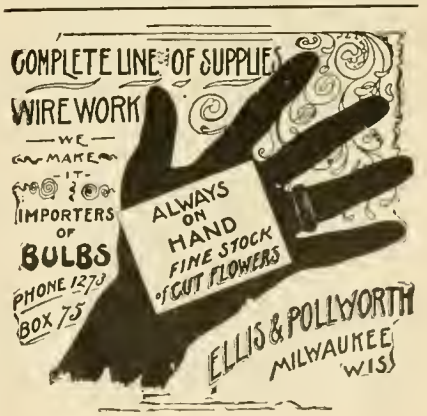
CINCINNATI CUT FLOWER CO.

SUCCESSORS TO H. L. SUNDERBRUCH CO.

Wholesale Commission Florists

416 Walnut St., CINCINNATI, OHIO.

Consignments Solicited. Special Attention Given to Shipping Orders.



Samuel S. Pennock, Wholesale Florist,
1612-14-16 Ludlow Street, ...PHILADELPHIA, PA.
.....FINE VALLEY AWAYS ON HAND.
AMERICAN BEAUTIES OUR SPECIALTY.
CHOICE STOCK OF ASSORTED ORCHIDS.

GEO. A. SUTHERLAND. BOSTON... FLOWERS
Wholesale Depot for all Florists' Supplies.
Price Lists mailed. 67 Bromfield St., BOSTON, MASS.

CITY HALL CUT FLOWER MARKET, 9 Chapman Place, 15 Province Street, BOSTON, MASS.
WELCH BROS., PROPRIETORS.
Consignments from regular growers assigned separate space in our market. We guarantee payment for all flowers sold. Sales reported weekly. Payments monthly, or oftener if required.
THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

Wholesale Florists, Always on Hand: CARNATIONS, BRIDESMAIDS, BRIDES.
JOBBERS IN FLORISTS' SUPPLIES
N. F. McCarthy & Co.
FLORISTS' VASES.
Horticultural Auctioneers.
84 HAWLEY STREET, BOSTON.

GALVIN & CO.
Wholesale Florists
AND DEALERS IN ALL
FLORISTS' SUPPLIES,
4 Ordway Place, BOSTON, MASS.
Cut Flower Consignments Solicited. Best market.

N. Y. CUT FLOWER EXCHANGE
404-412 E. 34th St. Near Ferry.
Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

John Conley & Son,
Manufacturers of
TIN FOIL
2 AND 4 DOMINICK STREET,
New York.

BRILLIANT GREEN AND BRONZE
GALAX LEAVES,
For Decorating and all Florists' Designs.
CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

F. J. FOSTER
WHOLESALE FLORIST
109 N. 11th St., ST. LOUIS, MO.
SPECIAL ATTENTION PAID TO SHIPPING ORDERS. CONSIGNMENTS SOLICITED.

GEO. A. KUHL,
Wholesale Cut Flowers
ROSES AND CARNATIONS.
GEO. A. KUHL, = Pekin, Ill.

Wholesale Flower Markets

PHILADELPHIA, Nov. 2.

Roses, Teas	2.00@ 4.00
" extra	4 00@ 6 00
" Beauties, extra	12 50@16.00
" " firsts	6.00@ 8.00
" " seconds	4 00@ 6.00
Carnations	1 00@ 1.50
Lily of the valley	3 00@ 4 00
Asparagus strings	35 00@50.00
" Sprengerii per bunch .50@1.00	
Smilax	12.00@15.00
Violets, double	.35@ .50
Cosmos	.25@ .50
Chrysanthemums	12.00@16.00

BOSTON, Nov. 2.

Roses, Beauties	5.00@20.00
" Kaiserins	2.00@ 8 00
" Brides, Bridesmaids, Meteors	1.00@ 4.00
Carnations	.50@ 1.50
Lily of the valley	2.00@ 4.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1 00
Chrysanthemums	2.00@10.00
Violets	.50@ .75

C. A. KUEHN,
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

ELLISON & TESSON,
Wholesale Shipping
FLORISTS
3134 Olive Street, St. LOUIS, MO.
HOME GROWN STOCK.

C. W. WORS
2740 Olive Street,
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FLOWERS at WHOLESALE....
.....ROSES, and a full line.
Headquarters for the South West.....

ST. LOUIS CUT FLOWER CO
Wholesale Florists,
H. G. BERNING
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IT IS GOOD BUSINESS POLICY TO MENTION THE AMERICAN FLORIST WHEN YOU WRITE TO AN ADVERTISER.

EDWARD REID,
Wholesale Florist,
1526 RANSTEAD STREET,
Long Distance 'Phone. PHILADELPHIA.

Dumont & Co.
WHOLESALE FLORISTS.
Carnations a Specialty
1305 Filbert Street, PHILADELPHIA.
TELEPHONE 3922 D.

Geo. M. Moss,
WHOLESALE FLORIST,
30 South 17th Street, PHILADELPHIA, PA.
Long Distance 'Phone 1-41-26 D.
Consignments of Roses, Carnations, Violets solicited

WM. C. SMITH,
Wholesale Florist,
1604 LUDLOW STREET,
PHILADELPHIA.
Consignments Solicited. Special attention given to shipping orders

KELSEY'S SOUTHERN
GALAX LEAVES.
BRILLIANT GREEN and BRONZE.
Information of the introducer....
HARLAN P. KELSEY, 1150 Tremont Bldg., BOSTON, MASS.
Prop'r Highlands Nursery, in No. Carolina.

...GEO. M. KELLOGG...
Largest Grower of... in the West. Cut Flowers
Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO.
LONG DISTANCE 'PHONE AT EITHER PLACE.

HAIL For Insurance Against Damage by Hail Address
JOHN G. ESLER, - Sec'y F. H. A.,
SADDLE RIVER, N. J.

MacDONALD & McMANUS

SUPPLY ORCHIDS EVERY DAY.

ONLY HOUSE IN NEW YORK HANDLING EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

50 WEST 30TH STREET. NEW YORK CITY.
TELEPHONE 2778 38TH STREET.

Decker, Blauvelt Co.

• WHOLESALE FLORISTS •

42 West 28th Street, NEW YORK.

CONSIGNMENTS SOLICITED.....
Shipping orders will receive prompt and careful attention.

Top Grade BEAUTIES, BRIDES, BRIDESMAIDS.

Extra Carnations.

JOHN I. RAYNOR, 49 West 28th Street, NEW YORK.

WALTER F. SHERIDAN,

WHOLESALE **FLORIST**

39 West 28th Street, NEW YORK.

Roses shipped to all points. Price List on application.

Asparagus Plumosus Nanus!

STRINGS 10 FEET LONG, 50 CENTS.

W. H. ELLIOTT, = = = Brighton, Mass.

FRANK MILLANG,
CUT FLOWERS,
WHOLESALE COMMISSION,
408 E. 34th Street,
Cut Flower Exchange. NEW YORK.

JOHN YOUNG,
ROSES, CARNATIONS, VALLEY
and all other choice cut flower stock.
51 W. 28th Street, NEW YORK.
Price list on application.

ROSES LILIES
JULIUS LANG
53 WEST 30th STREET
NEW YORK
CARNATIONS SMILAX

Choice Carnations Choice Roses

Traendly & Schenck
NEW YORK CITY
38 W. 28th Street Cut Flower Exchange

Now They're Cheap!!
FLOWERS, ALL KINDS
PLENTY OF THEM AT
J. K. ALLEN'S 57 WEST 28th STREET, NEW YORK.
TELEPHONE 382 38th St.

J. J. PERKINS. ESTABLISHED 1872. R. POTTER.
J. J. PERKINS & CO.,
Wholesale and Commission
FLORISTS...
52 West 29th St., NEW YORK.

Wholesale Flower Markets

NEW YORK, Nov. 2.

Roses, Beauties	5.00@20 00
" Bridesmaids, Brides	.50@ 3 00
" Morgans Perles	.50@ 2 00
" Niphetos, Cusins	.50@ 1 00
Carnations	.50@ 1.00
Lily of the valley	2 00@ 5.00
Smilax	8 00@15 00
Asparagus	35.00@50 00
Cattleyas	20 00@25 00
Adiantum	.50@ .75
Violets	75@ 1.25
Chrysanthemums	2.00@ 5.00
" fancy	20.00@25.00

BUFFALO, Nov. 3.

Roses, Beauties	5.00@20 00
" Brides, Bridesmaids	2.00@ 6.00
" Meteors	2.00@ 6.00
" Perles, Niphetos	2.00@ 4 00
" Kaiserins	3.00@ 6.00
Carnations, ordinary	.50@ 1.00
" fancies	1.00@ 2.00
Lily of the valley	4 00@ 5.00
Smilax	10.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	.50@ 1.00
Chrysanthemums	10.00@20.00

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.
WM. F. KASTING WHOLESALE COMMISSION FLORIST....
495 Washington St., Buffalo, N. Y.
Also Dealer in Florists' Supplies and Wire Designs

A Catalogue For You
Low prices on first-class Fall goods.
Address
A. HERRMANN Manufacturer of Florists' Supplies.
404-406-408-410-412 E. 34th St., New York City.

THOS. YOUNG, JR.
Wholesale Florist
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THE NEW YORK CUT FLOWER CO.
119 and 121 West 23d Street,
112 and 114 West 24th Street,
Telephone 733—18th. NEW YORK.
CONSIGNMENTS SOLICITED.
Special Attention Given to Shipping Orders.

M. A. HART,
Commission DEALER IN Cut Flowers,
44 WEST 29TH STREET,
NEW YORK CITY.
THE BEST MARKET IN NEW YORK.
'Phone 1307 38th St.

Ford Bros...
Wholesale Florists
111 West 30th Street, NEW YORK.
Consignments Solicited. Telephone, 260 38th St.

EDWARD C. HORAN,
34 W. 29TH STREET,
NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country.
Price List on application.

JAMES M. KING
Commission Dealer in
CUT FLOWERS.
Good Money for your Flowers.
Good Flowers for your Money.
49 WEST 29TH ST., NEW YORK.
TELEPHONE 1675-38th St.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

BEAN prices are firmer, there being evidently a great shortage.

J. M. KIMBERLIN, of Santa Clara, California, is on his eastern trip.

VISITED CHICAGO:—Henry A. Salzer, La Crosse, Wis.; Lester Morse, J. M. Kimberlin.

TERRE HAUTE, IND.—Hoerman & Cleary succeed J. A. Foote in the seed business at this place.

THE interests of Joseph Breck & Sons Corporation at Chicago are reported transferred to Chas. H. B. Breck.

READING, PA.—Wm. M. Koenig, seedsman, 843 Penn street, has made an assignment for the benefit of his creditors.

THE mother of William Henry Maule died Sunday, October 30. The funeral was held Thursday, November 3.

VAUGHAN'S SEED STORE was awarded a gold medal at the Trans-Mississippi Exposition for exhibits of cannas, pansies and roses.

NEW YORK.—Frank T. Emerson is registered at the Continental Hotel. H. H. Harries, of Goodwin, Harries Co., Chicago, and W. J. Langbridge are also in town.

VILMORIN-ANDERIEUX & Co., Paris, France, have been awarded a gold medal for their sugar beet exhibit at the Trans-Mississippi Exposition.

C. C. MORSE, while on his eastern trip, was taken suddenly ill at Minneapolis, October 24. His wife and son are now with him and his many friends will be glad to hear that he is much improved. Lester Morse will probably complete his fathers' trip.

MARY L. MEGGAT, youngest daughter of Mr. and Mrs. Wm. Meggat, Wethersfield, Conn., died November 2. She was a bright, winsome girl of sixteen years. She had been sick for about two months. The family have the sympathy of the entire community.

LONDON, OCTOBER 17.—Canary steady, hemp seed exhausted; inquiry for old lettuce seed for bird food. Red clover has an upward tendency. Rye grass quiet. White clover, alsike and trefoil looking up. Blue peas continue strong. No change in rape and mustard.

THE statement is made that 10,000 feet of floor space has been rented for executing the government seed contract. This would seem to be very cramped quarters for putting up this seed by hand. Messrs. Landreth & Sons used 15,000 square feet for a work room alone, and used machinery at that. The building engaged is said to have neither heat or elevator service.

IN a letter under date of October 15 one of our friends in Erfurt writes regarding the aster seed crop as follows: "Over 90 per cent of our asters are still out in the field; it is only the earliest sorts that have been harvested. For the last two weeks the weather has been cloudy and moist, even wet at times, so the harvesting could not be carried on with any degree of expediency, and the seeds would not dry in the lofts. The crop of the better class of asters will turn out considerably behind expectations."

CROMWELL, CONN.—A. N. Pierson, who has 200,000 feet of glass, is a director in the new Cromwell Water Works Company.

WASHINGTON, PA.—Lloyd Swarthout has opened a flower store at 146 S. Main street in connection with Richard Forest's greenhouses.

DORRANCETON, PA.—Robert Lamereaux has been engaged as a grower by B. F. Dorrance and will soon move his family from Harvey's Lake.

FRESH
Mushroom Spawn.
The BEST and most productive type of English Spawn. Quality and condition guaranteed.
G. H. R. is prepared to ship large quantities throughout the coming season. Lowest terms upon application.
G. H. RICHARDS,
MANUFACTURER.
124 Southwark St., LONDON, S. E.
Will unknown correspondents please enclose London references.

HUSSA & CO.
CUSTOMS BROKERS AND FORWARDERS,
66 Beaver St., - NEW YORK.
ESTABLISHED 187
All customs matters attended to. Correspondence solicited.

FOR **Colored Plates, Covers and Seed Packets** ADDRESS
STECHER LITHOGRAPHIC CO.,
Rochester, N. Y.

The Only Machine
on the market for automatically filling and sealing seed packets.
The Brown Bag-Filling Machine Co.
FITCHBURG, MASS., U. S. A.


HOW TO ...GROW... **Mushrooms**
My 24-pp. booklet on M. Cult. free to buyers or intending buyers of spawn—to others, 10 cents. New supplement on outdoor culture by JNO. G. GARDNER included. Third shipment of Mushroom Spawn due to arrive at this port November 7th. Send for my new Price List.
C. C. Watson, Juniper & Walnut Sts., Phila., Pa.

COLD STORAGE **VALLEY** ALWAYS ON HAND.
CASES of 2500 pips, extra quality, $25.00; per 100, $12.00.
CASES of 3000 pips, good quality, $25.00; per 1000, $10.00.
CLUCAS & BODDINGTON CO.,
501 & 503 West 13th St., NEW YORK CITY.



TRY DREER'S GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

August Rölker & Sons
Supply the Trade
with Choicest Seeds, Bulbs and all Florists' Supplies; many choice Novelties offered for the fall trade. . . .
FOR LISTS ADDRESS
52 Dey Street, NEW YORK.

BURPEE'S
SEEDS
PHILADELPHIA.
Wholesale Price List for Florists and Market Gardeners.

TELEGRAPH CODE
OF THE
AM. SEED TRADE ASSOCIATION
$2.00,
In either stiff or flexible cover.
ADDRESS ORDERS TO
AMERICAN FLORIST CO.,
CHICAGO.

BULBS and FLOWER SEEDS
FOR FLORISTS.
J. M. THORBURN & CO.
36 Cortlandt Street, New York.

COX SEED CO.
SEED GROWERS
San Francisco, Cal.
Established in 1876.
SPECIALTIES
Onion, Lettuce, Celery, Sweet Peas
IN VARIETY

THE WABASH R. R. COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A.,
387 Broadway, New York City,
J. D. McBEATH, N. E. P. A.,
5 State Street, Boston, Mass.
C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

THIS IMPRINT ON AN ENGRAVING

MANZ
CHICAGO

IS A GUARANTEE OF SATISFACTORY QUALITY.....

Manz makes illustrations for this paper.

MÖLLER'S
Deutsche Gärtner-Zeitung

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription $3.00 per annum, including postage. Sample copies free.

Ludwig Möller-Erfurt.
(GERMANY)

SHIPPING LABELS FOR Cut Flowers

Size 4¾x6 inches, printed in red on gummed paper with leaf adopted by the S. A. F. Price with your card, 500. $2.85; 1000, $4.50. Samples free.

ELECTRO OF THIS LEAF, POSTPAID, $1.25.

American Florist Co.,
CHICAGO.

THE Regan Printing House
NURSERY SEED FLORISTS **CATALOGUES**

87-91 Plymouth Place,
CHICAGO.

Fire!! Fire!!
FLORISTS' MUTUAL FIRE INSURANCE CO.

Write now: Delays are Dangerous.

W. J. VESEY, Sec'y, - Ft. Wayne, Ind.

CHRYSANTHEMUMS AT.... MODERATE PRICES.

We have a very choice lot, all grown to single stems, and for the coming week will have, **Bonnaffon**, extra fine yellow, $2.00 per doz. **Mrs. Perrin**, extra fine pink, $2.00 per doz. **Ivory, Pink Ivory, Mrs. Bassett, Mrs. H. Robinson** and many others, all good sized flowers, at $1.00, $1.25 and $1.50 per dozen.

Bassett & Washburn, STORE: 88 Wabash Ave., CHICAGO
GREENHOUSES: HINSDALE, ILL.

THIS IS IT.

NO OIL. NO FLAME.



LEHMAN'S Wagon Heaters

Will keep your delivery wagons at a temperature that will prevent your plants and flowers freezing in the coldest weather. Positively no smoke, no smell, no gas, no danger. Cost of opering less than one cent per hour. Thoroughly reliable, inexpensive and durable.

For descriptive circular and price list, Address

LEHMAN BROS.
Manufacturers
10 Bond Street, NEW YORK.

OR JAMES W. ERRINGER, GENERAL WESTERN SALES AGENT,
297 Wabash Avenue, CHICAGO.

HOLLY=VAUGHAN'S XXX BRAND.

THE Holly situation changes nearly every year. For the last three years they've begun to bring it into the country towns like potatoes. Every man has taken to cutting his own—or some other man's Holly, and packs it well, badly or indifferently, or any old way. The result is very bad for the retail florist. When we first started the Holly business, in 1880, our buyer contracted for a man's grove and cut the best and sorted it himself, and established Vaughan's XXX Stock as a brand worth having. It is nearly 20 years old—almost of age—and has held its own well. But we wondered why so many culls came our way (to sell to peddlers at half rates) and this fall our Mr. Vaughan located this town market Holly system, and cut it off from our man. We are buying and packing our Holly in the woods ourselves, and it costs more money, but it is worth to the retailer a lot more than it costs. **A good case of Holly is easily worth Ten Dollars, while cull stock can't be given away.**

We can suggest delivery dates which will keep you in good supply on the best days for selling Holly. Our prices are not advanced. How much can you use?

Vaughan's Seed Store, *84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.*

WE'RE not in the woods but we are HEADQUARTERS for

Bouquet Green
Also Select grade **Delaware Holly**

We also ship out perfect **Palms** and fine **Ferns** at reasonable prices.

Order GREEN WREATHING for Thanksgiving now. Write for quotations. Special price in quantity.

ELLIS & POLLWORTH, Milwaukee, Wis.

ATTENTION, SECRETARIES!

OF CHRYSANTHEMUM CLUBS AND EXHIBITIONS.

The season of Chrysanthemum Exhibitions being close at hand, we have, as in seasons past, placed ourselves in position to supply your Club with our beautiful **CHRYSANTHEMUM LITHOGRAPHS.** We have just issued, at a very great expense, two new lithographs (a full sheet and a half sheet), which we believe are the handsomest yet offered. They are entirely new in design, and, being highly illuminated are admirably fitted for advertising your coming exhibition.

We respectfully solicit your patronage, and will be pleased to send samples and prices on application. ORDERS WILL BE PROMPTLY FILLED.

THE COURIER LITHOGRAPHING COMPANY, Buffalo, N. Y.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

ALVIN, TEXAS.—Russell H. Bushway has embarked in the nursery business here.

FIFTEEN states have enacted laws for the extinction of or protection from San Jose scale.

A POSTOFFICE has been established by the Dominion government at Brown's Nurseries, Ont.

WM. C. BARRY, of Ellwanger & Barry, is president of the Western New York Horticultural Society.

PROF. F. W. CARD has found that common lead paint is the best application for wounds caused by pruning.

NURSERYMEN find a strong demand for peach trees for spring delivery and many predict a sharp advance in prices.

KNAUTH, NACHOD & KUHNE, New York, are American agents for Barbier & Co., Orleans, France, successors to Transon Bros.

PROF. MARK V. SLINGERLAND, of Cornell University, is now State Entomologist of New York, succeeding the late Dr. J. A. Lintner.

A BULLETIN of the Michigan Agricultural College describes the gasoline blast as a means of destroying scale. It throws a flame similar to a plumber's torch and when properly used does not injure the trees.

Proposed Code for Pomological Nomenclature.

We are indebted to Prof. F. A. Waugh for a copy of the following rules, advanced by the Horticultural Club of Cornell University for the guidance of horticulturists in the naming of fruits. We are of the opinion that similar regulations might be applied to all departments of horticulture with considerable advantage, and it is hoped that our national societies may soon be enabled to adopt such measures as will insure a greater degree of accuracy and convenience than now obtains in the use of names.

FORM OF NAME.

1. The name of a variety of fruit shall consist of one word, or at most of two words.

In selecting names simplicity, distinctiveness, and convenience are of paramount importance. Pitmaston Green Gage and Louise Bonne de Jersey are neither simple nor convenient. Gold, Golden, Golden Drop, Golden Beauty and Golden Prune, all given to different varieties of plums, are not distinctive.

The use of such general terms as seedling, hybrid, pippin, buerre, damson, etc., is not admissible.

Nouns must not be used in the possessive form. McIntosh's Red, Crawford's Early, Bubach's No. 5, must be written McIntosh Red, Crawford Early and Bubach. Numbers are to be considered as temporary expedients to be used while a variety is under trial.

The name of no living horticulturist should be applied to a variety without his full consent; and the name of no deceased horticulturist should be used without the general agreement of living horticulturists.

An author publishing a new variety should use the name given by the originator, or by the introducer, or else should choose the oldest discoverable local name, providing such name may be conformed to these rules without loss of identity.

2. In the full and formal citation of a variety name, the name of the author who first published it shall also be given.

Names would then take such forms as the following: Summer Queen, Coxe; or Hale (Hale); or Sophie (J. W. Kerr, Cat. 1894); or America, Burbank, New Creations, 1898, p. 5.

It is expected that such citations of names will be used only in elaborate works on pomology, in scientific publications, or in some cases where they are necessary for clear discrimination of synonyms.

PRIORITY.

3. No two varieties in the same group shall have the same name; and the name first published for a variety must always be used to designate it. All names subsequently published must stand as synonyms

The term "group" as here used shall be held to designate the large general groups specified by words in common language, such as raspberry, plum, apricot.

PUBLICATION.

4. Publication consists in (a) the public distribution of printed name and description, the latter giving distinguishing characters of fruit, tree, etc., or (b) in the publication of a new name for a variety properly described elsewhere.

Such a publication may be made in any book, bulletin, report, trade catalogue or periodical, providing the issue bears the date of its publication, and is generally distributed among nurserymen, fruit-growers and horticulturists.

REVISION.

5. No one is authorized to change a name for any reason except when it conflicts with these rules.

ROSES

Enormous stock to select from. Over 300,000 plants, in 2,400 varieties.

Soupert & Notting,

Luxemburg, Grand Dutchy, Europe.

Patronized by the crowned heads of Luxemburg, Holland, Sweden, Brazil, etc. Catalogue sent postpaid on application.

HARDY

Herbaceous Perennials

THE MOST COMPLETE STOCK IN AMERICA.

PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

JACOB W. MANNING,

The Reading Nursery, READING, MASS.

ESTABLISHED 1854

ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Address

EDITORS OF THE "H. A."

Chilwell Nurseries, - Notts, England.

Jackson & Perkins Co. NEWARK NEW YORK

WHOLESALE NURSERYMEN.

Special Offer of **Ornamental Trees**

Smooth, thrifty, well branched and well rooted.

Quantity		Per 100
125	Beech, cut leaved, 2-3 ft	$25 00
300	" River's Purple 2-3 ft	20 00
100	Birch, cut leaved Weeping, 5-7 ft	15 00
300	Catalpa Speciosa 5-10 feet	15.00
350	Chestnut, American, 8-10 ft.	20 00
100	Cytisus Laburnum (Golden Chain), 4-5 ft.	15.00
100	" " " 3-4 ft	12.00
300	Elm, American, 7-8 ft.	16.00
150	" Camperdown 2-year heads	35 00
200	" Huntington, 6-8 ft	16.00
200	Euonymous Europea (strawberry tree) 5-7 ft.	15 00
150	" " " 4-5 ft.	12.00
100	Linden, American, 8-10 ft.	25 00
100	" European, 8-10 ft.	25 00
100	Magnolia Acuminata, 3-4 ft.	20 00
100	" " 2-3 ft.	15.00
150	" Speciosa 2-3 ft	50 00
100	" Soulangeana, 2-3 ft.	50.00
150	Maple, Norway, 10-12 ft	35 00
1200	" " 8-10 ft.	20 00
100	" Schwedler's 6-8 ft	35 00
150	" " 5-6 ft.	20 00
400	" Silver, 10-12 ft.	18 00
600	" " 8-10 ft.	12 00
100	" Sugar, 10-12 ft.	25 00
100	" " 8-10 ft.	20.00
100	" Weir's cut leaved, 5-6 ft.	18 00
300	Mt. Ash, oak leaved, 7-9 ft.	17 00
500	" " " 5-7 ft.	12.00
100	Mulberry, Teas' Weeping, 2 year heads	30.00
500	Willow, Kilmarnock, 2 year heads	15 00

Send for wholesale price list of ROSES, SHRUBS, CLEMATIS, VINES, FRUITS, Etc.

JACKSON & PERKINS CO., Newark, N. Y.

....AUTUMN 1898....

One Million

Flowering Shrubs; full assortment; all sizes.

Half Million...

Deciduous Trees for street, lawn and avenue planting.

200,000 Vines, Ivies, Clematis, Actinedia and other sorts. Correspondence solicited.

THE WM. H. MOON CO.

MORRISVILLE, PA.

HARDY SHRUBS

Assorted in 25 Varieties.

My selection $50 per 1000. Descriptive catalogue and price lists for the trade.

SAMUEL C. MOON,

MORRISVILLE, - Bucks Co., PA.

Viburnum Tomentosum

A RARE AND BEAUTIFUL SHRUB.

HERBACEOUS PERENNIALS A SPECIALTY

Price list and descriptive catalogue on application.

REA BROTHERS, Norwood, Mass.

WANTED.

500 Sidewalk Trees, 4-inch. Send careful description of stock you have suitable for street planting, with prices and estimate of freight charges.

C. B. WHITNALL,

1184 Humboldt Ave., - - MILWAUKEE, WIS.

J. H. H. BOYD

TREE and SHRUB, SEEDS and SEEDLINGS,

GAGE, Sequatchie County, TENN.

price list.

F. & F. NURSERIES SPRINGFIELD, NEW JERSEY.

Wholesale Growers, TREES & PLANTS in Full Assortment. TRADE CATALOGUE FREE.

LAST CALL!



AZALEA.

There has been a slump lately in the Romans and Paper Whites that are left over from the regular fall trade, and we want to get rid of ours just as badly as anybody, BUT, there is just this difference, the bulbs we have left are of regular full size, clean, smooth skins, and not the scraped-up cull lots left over on the other side and "consigned" here at any old price. Yet, we will sell at low rates NOW to clear them out.

QUOTATIONS BY WIRE OR LETTER ON RECEIPT OF ADVICE OF QUANTITY YOU CAN USE.

WHITE FRENCH ROMAN HYACINTHS, 11 to 12 ctms.
" " " " 12 to 15 "
" " " " 13 to 15 "
" " " " 14 and up "
NARCISSUS PAPER WHITE, Giant Flowered.
FREESIA REFRACTA ALBA.

Chinese Sacred Lily. The best selling bulb for the retail counter trade. Per 100.....$4.50. Special prices for quantities

AZALEAS.

Our first consignment of Azalea Indica (two carloads) is now unpacked. The plants are in fine condition and of good shape. ORDER NOW while weather is suitable for shipping of same.

SPECIAL PRICES QUOTED FOR QUANTITIES.

PRICES:	PER 100
10 to 12 inch	$40.00
12 to 14 inch	45 00
14 to 16 inch	55.00

WE IMPORT ONLY THE MOST POPULAR AND BEST SELLING VARIETIES.

VAUGHAN'S SEED STORE,

NEW YORK, 14 BARCLAY ST. 84-86 RANDOLPH ST., CHICAGO.

HEADQUARTERS FOR "FANCY" BULB STOCK.

Here We Are Again

Read some of our premiums and send card to R. A. McKeand for complete Premium List for

INDIANAPOLIS 'MUM SHOW.

Nov. 8 to 12, 1898.

CUT 'MUMS.

10 Thornden	$10.00		
25 Bonnaffon	15.00	$10 00	$5.00
25 Mrs. H. Weeks	15.00	10.00	5 00
25 Mrs. Perrin	15.00	10.00	5.00
25 Modesto	15.00	10.00	5.00
Best 12 blooms, 12 varieties, one bloom to vase	8.00	5.00	3.00
Largest and best 10 blooms, one variety	10.00	7.00	5.00

Best display **CUT ROSES**, not less than 300 nor more than 400 blooms—$50, $35, $20.

Best display **CARNATIONS**—Silver Fern Dish.
Best display Carnations, 6 vases, 6 varieties, 50 in a vase—$15, $10.
Best vase 50 White Cloud—$5.
Best vase 50 Gold Nugget—$5.

R. A. McKEAND,
Garfield Park, INDIANAPOLIS, IND.

☞ Limit of 36 inches on single stems abolished

SPECIAL OFFER

Gloire de Lorraine

....BEGONIA....

The grandest Novelty of the day and one of the best selling plants for Florists ever offered. Blooms continuously, autumn, winter and spring. Flowers beautiful clear pink. Plants present a mass of floral loveliness for months.

Fine strong plants from 4-in. pots, per doz, *$7 50;* per 100, *$55.00*. Flowering plants, from 2½-in. pots, per doz., *$4.75;* per 100, *$35.00*. *Now ready*.

R. & J. FARQUHAR & CO.,
16 and 19 South Market St., BOSTON.

	Per 100	Per 1000
Lil. Longiflorum, 6x8	$3.00	
" " 7x9	5.50	
Roman Hyacinth, 12x15	1 75	$16.00
" " 13x15	2.00	18.50
Dutch Hyacinths, best sorts, first size, to color	4.25	40.00
Azaleas, favorite stand'd vars., 9-11 in.	30.00	
10-12 in. per 100 $35.00; 12-14 in.	45.00	
14-16 inch	55.00	
Aralia Sieboldi, grand decorative plant, seeds	.40	3.00

Giant Pansy Seed, choicest German and Scotch strains, to clear crop '98, ⅛ oz. 50c; oz. $2.50.
Fresh Smilax seed, per oz. 40c; per lb $3.00.
5 per cent discount for cash.

H. H. BERGER & CO., 47 Barclay Street, New York.
(ESTABLISHED 1878.)

ANTON SCHULTHEIS,

P. O. BOX 78,
College Point, Queensborough, New York, N. Y.

HEADQUARTERS

For Ericas (Heather); also full line of other Flowering Plants.
PALMS and DECORATIVE PLANTS IN QUANTITY.
Come, see and convince yourself.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

VISITORS at Lawrence, Kansas, will find the finest bowling alleys in the west at the local club house in which Mr. Fred. Barteldes is interested.

St. Louis Bowling Record.

The attendance at the meeting of the bowling club, October 31, was affected by the night coming so near the first of the month, several of the regular attendants not being able to be present on that account. Interest, however, in the sport has not fallen off, although the attendance has decreased somewhat from this time last season.

Name.	1	2	3	4	5	6	Ave.
J. J. Beneke	172	166	193	143	137	153	160
D. Finlayson	168	147	130	154	141	129	143
C. A. Kuehn	187	122	144	140	153	120	138
Emil Schray	119	130	179	133	135	110	138
F. J. Fillmore	119	82	111	130	156	122	120
S. S. Skidelsky		70	89	89	63	81	78

R. F. T.

Philadelphia Pastimes.

The interest in bowling is still kept up, not so much from the high scores made as from the fun in the numerous small contests that take place. It is a fact, however, that few bowlers tire of the game while their scores are good, but if they get into a rut and luck seems against them they are noted for their absence. The following are the averages for the month of October; all games bowled are counted:

Moore	154	Craig	133
Goebel	149	Anderson	130
Smith	145	Kienhle	130
Moss	142	Rust	129
Connor	142	Star	126
Kift	140	Walker	124
Baker	139	Kahlert	120
Westcott	139	Watson	116
Longinotti	139	Lonsdale	104
Brown	138	Gibson	90
Archer	135		

K.

Chicagoans Choose a Captain.

After three games had been rolled at the last meeting it was proposed that a fourth should decide the captaincy of the team. The suggestion was immediately acted upon with the result that J. S. Wilson won handily with a score of 199. Following is the record of the evening's play:

Name.	1st.	2d.	3d.	Av.
G. L. Grant	153	153	216	174
G. Stollery	163	156	177	165
J. S. Wilson	164	168	160	164
E. F. Winterson	173	150	158	160
C. W. McKellar	139	164	167	156
Jno. Zech	180	123	153	152
W. Kreitling	119	164	136	139
Jno. Degnan	133	143	128	134
P. J. Hauswirth	116	139	143	132
C. Erne	114	141		127
C. S. Stewart	102	123		112
F. Stollery	126	102	105	111
Jno. Reardon	87	126		106
A. Henderson	105			105
C. Hughes	86	107	81	91
H. C. Rowe	63	108	102	91
J. C. Vaughan	88			88
Jos. Reeves	69	95		82

Flatbush, N. Y.

The silver cigar holder won for best individual score in September by T. Brennan and by him generously put up again for another month's competition has been finally won by Eugene Daille-donze with a score of 208. Excitement was at fever heat last Thursday night when Alfred Zeller seemed to be on the track to win, but 201 was as high as he got. The attendance on this occasion was quite large, good scores were the rule and much enthusiasm prevailed. Messrs. Riley and Mellis officiated as captains for the evening.



P. J. HAUSWIRTH. J. S. WILSON.

PRESIDENT AND CAPTAIN OF THE CHICAGO BOWLING CLUB.

Toronto.

COOL WEATHER BRINGS GREAT IMPROVEMENT IN TRADE.—DUNLOP'S BIG ESTABLISHMENT.—HORTICULTURAL SOCIETY MEETING.—NOTES.

There has been a decided improvement in cut flower sales. The earlier varieties of chrysanthemums are coming in plentifully and good prices are paid without demurrer. The demand for Beauties is far ahead of the supply, but the quality of the stock is exceptionally good for this season of the year. Carnations are much in demand, but very scarce.

J. H. Dunlop had an order for a fashionable wedding in Hamilton during the week. A trip through his greenhouses shows everything in excellent order. Most of his chrysanthemums, as is the case everywhere, are late, but the early varieties are as good as could be desired, both in size and quality of bloom. Most of his greenhouses have been renovated during the past summer, and he mentioned in a casual way that he had used three tons of white lead. He is now building a large double-walled brick cellar as a cooling house for his cut flowers. His roses are being cut back till after the glut of chrysanthemums which is usual at this season. Very fine crops of carnations are coming on. Empress, Bon Ton, Triumph and White Cloud are especially good.

Arthur J. Frost reports an addition to the band of florists, weight about ten pounds.

George Mills is watching the development of an amber sport from Queen which he expects to give a good account of itself shortly.

Arrangements are about completed for the chrysanthemum show to be held next week, but many varieties do not look as though they would be ready.

The Toronto Horticultural Society held its usual monthly meeting on November 1. It was fairly well attended as there were nearly a dozen ladies present. Very little preparation had evidently been made for an interesting or instructive session. A few casual remarks by Geo. Mills on the care of dahlias and gladioli, by Alonzo Watkins on cannas and by Geo. Manton on roses and other hardy plants, being all that was tendered in that direction. The president, J. Mc P. Ross, who had promised a paper, was unable to attend. S. P.

SAN JOSE, CAL.—F. E. Bourguignon and H. L. Delaney have purchased the establishment of Emil H. Bourguignon.

MARYVILLE, N. Y.—A. T. Baldwin is completing a new greenhouse at Pleasantville which will be conducted by H. H. Ruland & Son.

EDGEWOOD, R. I.—George A. Pierce has retired from business on account of ill health and will be succeeded by his son, James A. Pierce.

SEATTLE, WASH.—Jos. Carbone and brother, of San Francisco, are now in the employ of the Puget Sound Seed Company at this point.

NEW HAVEN, CONN.—The Edward Malley Company will erect a winter garden modelled after the one in the Waldorf-Astoria in New York.

TERRE HAUTE, IND.—Supt. Snyder is selling the bedding plants at Collett Park. Geraniums go at 5 cents each and the proceeds will go into the park funds

KANSAS CITY, MO.—Geo. M. Kellogg, of Pleasant Hill, has opened his fine store here and will do a wholesale and retail business, handling both shrubs for yard planting and general florists' stock. He is not cramped for room as the main floor is 25x130 and the basement is 25x100. H. J. Millatt has arrived from Buffalo to take charge.

..AZALEAS..



WE are now filling orders for Azaleas, importations of which have arrived in excellent condition. Import prices will hold good as long as the stock is not potted; the varieties we supply are the most popular sorts suited to the American market and we give you any proportion you wish in the four leaders—

Mme. Vander Cruyssen, Vervaeneana, Deutsche Perle, Bernhardt's Andrea Alba.

Personal inspection of the stock in Belgium, through our own representatives, enables us to offer the best stock obtainable at bottom prices.

Order now and save heavy express charges later on, as shipments can at this time be made safely by freight.

Fine Bush Crowns, well set with buds:

10 to 12 inches in diameter	$4.50 per doz.;	$35.00 per 100	
12 to 14 " "	6.00 "	45.00 "	
13 to 15 " "	7.50 "	55.00 "	

SPECIMEN PLANTS of the leading varieties, $1.00, $2.00, $2.50 and $3.00 each, according to size.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA.

The Ever-Blooming NOVELTY **ACALYPHA SANDERI** **Can be had from**

JULIUS ROEHRS, Florist, Rutherford, N. J.

AND FROM EVERY POPULAR FLORIST IN AMERICA.

LONG'S *STOCK..... CATALOGUES.*

FLORAL ART CATALGUE of Cut Flowers and Designs, 16 pages, 96 illustrations, priced. Sample copy **20c.** in stamps.

PALMS, HOUSE PLANTS and how to treat them. New, handsome and practical: 16 pages, 12 illustrations. Sample copy free.

DAN'L B. LONG, Publisher, BUFFALO, N. Y.

CROTONS In Excellent Variety.

Send for list of sizes, varieties and prices.

If you feel disposed to try a sample dozen in as many varieties, in 6-in. pots, you may with confidence forward the necessary $9.00 for same by either check or P. O. money order and satisfaction will be guaranteed.

EDWIN LONSDALE,

Money order office, Sta. H. Philadelphia. Chestnut Hill, PHILADELPHIA.

Orchids!

IMPORTED and established stock of A1 quality always on hand. Also a complete line of best **Cherrywood Baskets, Fresh Moss and Peat, Etc.**

LAGER & HURRELL, SUMMIT, N. J.

ROBT. CRAIG & SON

Roses, Palms

and Novelties in Decorative Plants.

Market and 49th Street, PHILADELPHIA PA.

When writing mention the American Florist.

Palms...

ARECA LUTESCENS, COCOS WEDDELIANA, KENTIA BELMOREANA, LATANIA BORBONICA.

For Sizes and Prices, see American Florist of October 1st, page 269.

JOSEPH HEACOCK,

Box 36, WYNCOTE, PA.

When writing mention American Florist.

PALM SEEDS.

The following MUST be ordered NOW direct:

COCOS WEDDELIANA	$3.00 per 1000
" GLAZIOVII	4.00 "
GEONOMA GRACILIS	3.00 "
" IMPERIALIS	4.00 "
ARECA LUTESCENS	3.50 "

Not less than per 5000 delivered at above price; careful packing and freight paid to New York. Cash with order.

ORCHIDS: Large **exportation** of **all best Brazilian** Orchids. Apply for quotations. Frequent steamers to New York.

KROMER & THIEME,

Cable address: Kromer, Rio. Caixa 904 - - - - RIO DE JANEIRO, BRAZIL.

Mention the American Florist.

KENTIA SEEDS

Gathered by our own collector. The most superior Kentia Seeds in the market. Our next consignment is due October 18th.

KENTIA BELMOREANA, per 1000, 12s
" FORSTERIANA, " 12s

We shall be pleased to quote special prices for large quantities f. o. b. New York.....

HOMER PRICE & CO.

14 Castle St., Long Acre, LONDON, W. C.



PALM *Seed.* FRESH ON HAND

	100	1000	3000
Kentia Belmoreana	$1.00	$6.50	$15.00
" Forsteriana	1.00	6.50	15.00

J. L. SCHILLER, 404 East 34th St., NEW YORK CITY.

Say: "Saw it in the FLORIST."

Butte, Mont.

The recent report in regard to the losses of the florists by fire was in error, as Law Bros. & Day have suffered no loss. The only greenhouse destroyed was that of the Silver Bow Floral Co., now owned by L. A. Brouillard, of which a correct account was given. Mr. Brouillard has commenced to rebuild his place and will add considerable glass to the original establishment.

The Symans Dry Goods Company gave away 5,000 chrysanthemums at their opening last week. The store was handsomely decorated, Law Bros. & Day having charge of the floral work.

Chrysanthemums are in quantity now and bring from $3 to $4 per dozen. Roses are more plentiful, but not sufficient to fill the demand. Carnations are scarce and all flowers suitable for funeral purposes find a ready market at a good price.

The State Nursery Company, of Helena, is doing quite a business at its Butte branch.

Law Bros. & Day are figuring on building six new houses 20x105 for roses and carnations. They will use double strength glass 12x16 and heat by steam. E. L.

Little Rock, Ark.

George Vestal died October 24 in New Mexico, where he had gone for his health. He was the eldest son of J. W. Vestal, the leading florist of Little Rock and was engaged in the nursery business. He leaves a wife and child.

Ray Tipton has gone into business for himself with two houses each fifty feet long, which is a pretty good start for a young man.

J. W. Vestal has built two new houses each 150 feet long. WM. GALLAGHER.

CARNATIONS!

Extra fine field-grown plants.

Mrs. S. A. Northway.....Per 100, $10.00
Flora Hill..... " 6.00

PAEONIES.

Fine field roots, with 4-5 eyes.

	Per Doz.	Per 100.
Double Whites	$1.50	$12.00
Double Pinks	1.00	8.00
Double Red (Officinalis)	1.50	12.00
Double Red, Tennifolia fl. pl.	2.50	20.00

PANSY PLANTS from our INTERNATIONAL Mixed Seed, the very best, $4 per 1000.

VAUGHAN'S SEED STORE

Greenhouses: Western Springs, Ill. CHICAGO: 84-86 Randolph St.

Nephrolepis Cordata Compacta.... FINE. STRONG

3½-inch plants.....$7.50 per 100 | Cash with
4-inch plants.....15.00 per 100 | Order.

H. HILMERS,
Box 650. BLUE ISLAND, ILL.

BEGONIAS AND GLOXINIAS

In any quantity.

SANDER, Bruges, Belgium.
AGENT: **A. DIMMOCK,**
60 Vesey Street, - - - NEW YORK.

Tell your wants in the American Florist

ROSE HILL NURSERIES

JUST ARRIVED

DRACÆNA CANES

In Grand condition of the following varieties:

Braziliensis, Baptisti, Fragrans, Gladstonei, Metallica, Massangeana, Sheppardi, Titsworthii, Regina.

SIEBRECHT & SON, New Rochelle, N. Y.

ASPARAGUS SPRENGERI.

50,000 plants in 2½-inch pots, $5.00 per 100, Xpress; 24 for $1.50 by mail.
Specimens for 8-inch pots, $6 per 12.

A. BLANC & CO.
PHILADELPHIA.

Have you received our NEW CATALOGUE of FLORISTS' SUPPLIES WIRE WORK, etc.? If not, drop us a postal and same will be mailed to you. Please inspect it before buying elsewhere.

HOLTON & HUNKEL CO.

Wholesale Commission Florists.
DEALERS IN
FLORISTS' SUPPLIES, PLANTS, BULBS, ETC.
Manufacturers of WIRE DESIGNS. P. O. BOX 103. MILWAUKEE, WIS.

EXTRA HEAVY Clean Stock!

Kentia Belmoreana

6-in., 5 to 7 leaves.....$15 to $24 per dozen.
5-in., 5 to 6 leaves..... 12 "

Kentia Fosteriana

6-in., 5 to 6 leaves.....$12 to $18 per dozen.
5-in., 4 to 5 leaves..... 9 to 12 "

FIELD GROWN CARNATIONS...

A fine lot ready for delivery.

THE COTTAGE GARDENS

QUEENS, N. Y.

FOR IMMEDIATE DELIVERY!

Amoor Privet and **Hardy Lemon**—best Hedge Plants.
5,000 **Gardenia Florida**—pot grown.
5,000 **Oranges**—dwarf grafted sorts.
15,000 **Camphor.**
500 **Ficus Elastica.**
10,000 **Latania**—4-inch pots.
1,000 **Phœnix Reclinata**—6-inch pots.
100 000 **Cannas**—leading sorts, $15.00 per 1000.
10,000 **Biota aurea nana.**
5,000 **Rare Coniferæ.**
ROSES—field-grown, on own roots and budded low.
An immense stock of **Ornamental** and **Fruit Trees.**
Send for Trade List.

P. J. BERCKMANS CO.,
FRUITLAND NURSERIES, *Augusta, Ga.*
Mention the American Florist.

Pteris Tremula Ferns

Strong plants, ready to shift to 4 and 5-inch, from 2¼-inch pots, $3.50 per 100; $30.00 per 1000.

R. WITTERSTAETTER,
SEDAMSVILLE, OHIO.

THE BOSTON FERN

From $5 per 100 and $40 per 1000 to $1 each.
A SPECIALTY. **L. H. FOSTER,**
45 King Street, DORCHESTER, MASS.

PALMS AND FERNS.

Fine, clean stock, all home grown. Take advantage of the weather and order now.

	In. pots	In high	No. L'vs	Per 100
Areca Lutescens	8	48	4 pl'ts in pot	$1 50 ea.
" "	6	36	3 "	1 00 ea.
" "	6	48	6 9	75 00
" "	5	30	5-7	40 00
" "	4½	30	4 6	30 00
" "	4	20	40	20 00
Latania Borbonica	6	30	Char. 5-6	75 00
" "	5½	24	Char. 4-5	50 00
" "	5	20	Char. 3 4	35 00
" "	4½	20	Char. 3-4	25 00
" "	4	16	Char. 1-2	15 00
" "	3	10	5-6	10 00
Cycas Revoluta, fine stuff			$2 to $20 according to size	
Phœnix Canariensis	6	40-48	6-8	$60 00
" "	4	24-30	6-8	30 00
" "	3	18	4-5	15 00
Phœnix Reclinata	8	48	6-8	1 50 ea.
" "	6	36-40	5-6	75 00
Kentia Belmoreana	6	28-30	6-7	1 00 ea.
" "	6	24-26	5-6	75 00
" "	5½	20-24	5-6	50 00
" "	4	15-18	4-5	35 00
" "	3		...	25 00
Kentia Forsteriana	4½	36-40	5-6	75 00
" "	4	24-30	4-5	50 00
" "	3	15-18	4-5	25 00
Pandanus Utilis	5	18	...	50 00
" "	4	16	...	35 00
" "	3	14	...	20 00
Areca Bauerie	6	24	5-6	75 00
" "	4½	20	5-6	50 00
" "	4	18	3-4	35 00

Assorted Ferns in 10 varieties, the best for Fern Dishes, $3 per 100: $25 per 1000.

☞Send for Price List. Cash or satisfactor reference must accompany all orders.

J. B. HEISS, The Exotic Nurseries, Dayton, O.

AZALEAS

	Per 100	Per Doz.
10-12 inch	$35 00	$4 50
12-14 inch	45.00	6 00
14-15 inch	60.00	7.50
16-18 inch	100 00	15.00

They include the best market kinds, are well budded, and in every way perfect. The above prices are f. o. b. New York City.

100 CYCLAMEN GIGANTEUM, fine plants, 5-inch pots, $35 00.

F. L. ATKINS, Orange, N. J.

Do the American Florist a small favor Mention the paper when writing advertisers.

The Annual

...SPECIAL...

CHRYSANTHEMUM NUMBER

Of the American Florist has become an established feature eagerly looked forward to by our thousands of interested readers. This special issue for 1898 will appear

NOVEMBER 12

And will be of surpassing excellence. It will be handsomely illustrated, tastefully printed, widely read and of superior value as an advertising medium.

There will be no increase in advertising rates: $1.00 per inch, $30.00 per page of 30 inches; the usual discounts to those who are continuous advertisers.



Send Ads. NOW

Syracuse, N. Y.

The chrysanthemum show is now the all important topic. The officers and members of the Central New York Horticultural Society, under whose auspices the above will be held, are up to their ears in correspondence and work in connection with it. President Betts anticipates a most successful exhibition, more so than in former years. Through his and Secretary Campbell's untiring efforts many new features have been added to the show which will be good drawing cards. The Alhambra rink has been rented for the occasion and the balconies will be arranged into private boxes; already quite a number have been sold, the price being $10 each.

The attractions already outlined for the first night are an informal promenade followed by a musical programme, a genuine cake walk participated in by twelve young society people, a special programme by the Syracuse University Glee Club and a sword drill by the St. Johns Cadets, closing with an informal dancing party. Grove P. Rawson, of Elmira has been secured as judge and Chas. Bechstedt, of Oswego, and Peter Crowe, of Utica, are to be his associates. Thos. Bishop will be superintendent of the exhibition.

There are a large number of special prizes, competition open to all, principal among them being a silver vase for the best individual exhibit, and a high grade Barnes White Flyer wheel for a new and distinctive white variety to be afterwards named and known as the White Flyer. Not less than six blooms nor more than twelve of a kind can compete for this prize. There are many other attractive premiums. Out of town exhibitors not accompanying their exhibits should send them to D. Campbell, 217 Warren street. The schedule reads that entries shall be made not less than six days before date of show, but owing to later special prizes three days will be sufficient for out of town exhibitors, whose patronage is earnestly solicited. Around here midseason varieties are rather backward and fine weather is needed to have them in their prime by the date of the opening.

B.

FOR SALE.

4000 Scott Carnations, $3.00 per 100. $25.00 per 1000.

Stock is perfectly free from rust and disease. Cash must accompany order.

CHARLES SCHAFER,
220 Balmoral Ave., Station X, - - CHICAGO.

FERNS! ⚜ FERNS!

The following Ferns, TO CLOSE, at $2.00 per 100; $15.00 per 1000. All 2-inch, strong:

Pteris Tremula	Pteris Ensifolia
" Serrulata	Adiantum Cuneatum
" Serrulata Cristata	" Williamsii
" Longifiora	" Pubescens

E. HIPPARD, - Youngstown, Ohio.

CARNATIONS.

to plant after early 'mums. Several thousand that are stored in frames and have not been frosted.

McGowan	Wm. Scott	Daybreak	Alaska
Mapledale	Pingree	C. A. Dana	Portia
Triumph	Rose Queen	Eldorado	Della Fox
The Stuart	Mrs. C. H. Duhme, etc.		

Price, $4.00 per 100.

NATHAN SMITH & SON, - Adrian, Mich.

25,000 GERANIUM CUTTINGS, S. A. Nutt, La Favorite, Grant and 20 other varieties, $1.25 per 100; $10 per 1000. **25,000 Coleus Cuttings,** Golden Bedder and Crimson Verschaffelti, 75c per 100; $6 per 1000. Cash with order please. NEAR PHILA.

INSALL & LEADBETTER, Moorestown, N. J.

AZALEAS.

First consignment arrived in perfect condition. Can ship immediately

9-10-inch	$30.00 per 100
10-12-inch	35.00 per 100
12-14-inch	45.00 per 100
14-16-inch	60.00 per 100

All well furnished with buds.

LEADING SORTS: Apollo, A. Borsig, Bern, Andrea Alba, Deutsche Perle, Empress Brazil, Mme. Van der Cruyzen, Simon Madner, Vervaeneana, Etc.

HIRAM. T. JONES, UNION COUNTY NURSERIES, Elizabeth, N. J.

Acalypha Sanderi,

Each, $1.00; Dozen, $9.00.

VAUGHAN'S SEED STORE,
14 Barclay Street, NEW YORK.
VAUGHAN'S GREENHOUSES,
WESTERN SPRINGS, ILL.

THE GREAT DECORATIVE PLANT NOVELTY.

☞ WRITE TO NEAREST ADDRESS.

LOWEST PRICES ON BULBS, BUT CASH!

Send in your wants for quotation, no price list issued.

J. L. SCHILLER, 404 East 34th St., NEW YORK.

BULBS

Of All Kinds.

⚜⚜⚜⚜⚜

Hulsebosch Bros.,

ENGLEWOOD, N. J.

Surplus, Field-Grown CARNATIONS

Clean, healthy, strong plants with plenty of roots.

White Cloud, white.	C. A. Dana, pink.
John Young, white.	Dazzle, scarlet.
Mary Wood, white.	Jubilee, scarlet.
Storm King, white.	Gold Nugget, yellow.
New York, pink.	Psyche, variegated.
Painted Lady, pink.	Lily Dean, variegated.
Mrs. C. H. Duhme, pink	Meteor, crimson.

Send for Price List.

FRED. DORNER & SONS CO.
FA FAYETTE, IND.

OUR WELL KNOWN SPECIALTIES.

1500 Rubber Trees, perfect in growth and foliage, 5½-inch $5, 6-inch $7, 8-inch $11 per dozen. 100 at 7 dozen rates.

Latania Borbonica seedlings, low and strong, $3 per 100; $25 per 1000.

25,000 extra well grown Ferns for dishes, $3 per 100; $25 per 1000.

Sword Ferns, Nephrolepis Exaltata, strong, 4½-inch, $10, 5-in., $20 per 100.

65,000 Palms, Dracænas Pandanus, etc. Send for price list. Medal awarded World's Fair, 1893, on Palms.

☞ We sell for cash only, but allow inspection at express office before accepting.

ALBERT FUCHS.

26 model greenhouses at 2059-73 N. Halsted St., CHICAGO, ILL.

10,000 1 gal. 'Mums ready at low cash prices. A few steady customers wanted for roses and carnations.

Carnations! FIELD-GROWN.

All sold except	500 Lizzie McGowan
500 Wm. Scott	100 Morello and
300 Emily Pierson	100 Goldfinch

If there is anything here you want, write me and get some low prices on this lot. Address

Chas. Chadwick, Lock Box H, Grand Rapids, Mich.

Mention the American Florist.

CARNATIONS

H. WEBER & SONS,
Oakland, - Md.

FIELD-GROWN CARNATIONS

Ready Now.

SCOTT and McGOWAN at	$5.50 per 100
GENESEE	12.00 "
RUBBER PLANTS, Ficus Elastica, 5-inch, at	$5.00 per doz.
ASPARAGUS SPRENGERI	6.00 per 100
PRIMROSES	4.00 "
SMILAX	2.00 "
HYDRANGEAS, field-grown	30.00 "
VINCA variegated	5.00 "

WM. F. KASTING
BUFFALO, N. Y.
Please mention American Florist.

Cyclamen Plants!

NOW READY FOR DELIVERY.

600, 3-inch pots	at $ 8.00	per 100.
2000, 4 "	at 12.00	"
1000, 5 "	at 25.00	"
500, 6 "	at 50.00	"

The above plants are grown from the very choicest mixture of seed and are guaranteed first-class in every respect.

Shipped direct from the greenhouses.

Vaughan, McKellar AND Winterson
47 Wabash Ave., CHICAGO.

FIELD-GROWN CARNATIONS.

Ready now. Standard varieties. Write for prices.

FIELD-GROWN MARIE LOUISE VIOLETS, $4 per 100. A1 stock, from pots, $3 per 100; $25 per 1000.

A few hundred **BRIDES and MAIDS** at a bargain, from 3-inch pots.

CRABB & HUNTER, Grand Rapids, Mich.

ARMAZINDY CARNATION

Field plants, first size, $3.00 per 100.

E. G. HILL & CO., Richmond, Ind.

Smilax

EXTRA FINE, 12½ cts. per string. ANY QUANTITY.

A. J. BALDWIN, Newark, O.

CARNATIONS.

All the new and leading varieties. Contracts for rooted cuttings made now. Send for prices, stating what you want.

GEO. HANCOCK & SON, Grand Haven, Mich.

Do not hide your light under a bushel. Tell the people what you have for sale.

'MUMS STOCK PLANTS.

	Per 100
Fitzwygram, Midge } earliest whites	$8.00
Merry Monarch, second white	3.00
Yellow Monarch, earliest yellow	3.00
Marion Henderson, second yellow	5.00
Marquis de Montmort, earliest pink	3.00
Glory of Pacific, second pink	3.00

All the new and old.

Send for our Price List of other varieties.

AMERICAN ROSE COMPANY
Washington, D. C.

NEW MAMMOTH VERBENAS.
In this specialty we challenge the world. For size of bloom, variety of colors, shades, marking, healthfulness and vigor of plants, there is nothing that can surpass them in this or any other country. Growing as we do large quantities, we are prepared to fill an order for any quantity on short notice. Our plants out of 2-inch pots will afford an abundance of cuttings; price, $1 50 per 100. Rooted cuttings, 60c per 100, $5 per 1000, in 25 grand varieties. Special prices on large quantities. No orders solicited for less than $1. Cash with order. Send for our circular.
SOUTH SIDE FLORAL CO., Springfield, Ill.

HYDRANGEA OTAKSA

XX strong plants, per doz., $3.50; per 100, $27.50
" " for 8-inch pots.....
.....per doz., $3.00; per 100, $20.00
Medium size, " 2.00; " 12.00
ERICA FRAGRANS, 5 & 6-in. pots, per doz., 4.50
Extra fine plants.
DUTCH BULBS & INDIAN AZALEAS now at hand.
L. C. BOBBINK, Rutherford, N. J.

BEGONIAS.

	Per 100	Per 100
Argentea guttata	2-inch, $2.00; 3½-inch,	$4.00
Feastii, Speculata	2-inch, 2 00;	
Ruhra	2-inch, 3.00;	
Berths Chatteaurocher, Robusta	3½-inch,	4.00
De Lesseps, Pres. Carnot	3½-inch,	4.00
Marie Louise Violet clumps		4.00
Roses—La France ... $3.00 per 100; Meteor		2.50
White, Pink and Yellow Rambler 3½-inch		4.00

THE NATIONAL PLANT CO., Dayton, O.

Geranium "MARS"

	Per Doz.	Per 100
ROOTED CUTTINGS	$.50	$3.00
2½-INCH POTS	.75	5.00

Cash with order, please.
HENRY EICHHOLZ, Waynesboro, Pa.

SPECIALTIES IN BEST VARIETIES

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
Prices low. Send for list. **VIOLETS.**
WOOD BROTHERS, FISHKILL, N.Y.
Mention The American Florist.

STOCK PLANTS of Earliest of all 'MUMS
that make a good flower.
Cut Sept. 20th. Last year Sept. 17th.
LADY FITZWYGRAM, $1.00 per doz.
Cash with order, please.
FRED. BURKI, Bellevue, Pa.

Lettuce Plants

B G BOSTON, BOSTON MARKET, GRAND RAPIDS and TENNIS BALL.
Extra strong plants, 15 cts. per 100; $1.00 per 1000; $8.50 per 10,000. If by mail, add 10c per 100.
CASH WITH ORDER.
R. VINCENT, Jr., & SON, White Marsh, Md.

SMILAX PLANTS, $1.50 per 100, $14.00 per 1000.
VINCA VAR., 1 yr., $4.00 per 100; 2 yr., $8 00.
Extra strong, field-grown. Sample, 5c.
J. DANN & SON, Westfield, N. Y.

Herr's Pansies.

Good little plants (greenhouse grown) ready December 1st, at **75 cts. per 100, or $4.00 per 1000.**
ALBERT M. HERR, LANCASTER, PA.

Herr's Carnations.

Every cutting guaranteed satisfactory or money refunded. All the leading varieties in quantity at reasonable prices.

PANSY PLANTS!

Pansy Plants cheaper than you can buy the seed, of the finest strains in the world. We mean what we say at the following low prices for A1 stock: $1.50 per 500, $3.00 per 1000, $12.00 per 5000, $20.00 per 10,000, $35.00 per 20,000, $75.00 per 50,000.

The Morris Floral Co.,
MORRIS, ILL.

PANSIES

Roemer's Superb Prize Pansies.

Seed and Seedlings sold out. Large Plants for early winter blooming ready now.
$1.00 per 100. Cash with Order.
PETER BROWN, Lancaster, Pa.

TO THE CATALOGUE TRADE.

10,000 Clumps CANNAS, leading varieties.
5,000 SPIRÆA Anthony Waterer, 1 and 2 year.
5,000 Logan Berry, Strawberry, Raspberry and Golden Mayberry.
5,000 AMPELOPSIS VEITCHII. Write for special prices.
5,000 **VIOLETS**, Lady Hume Campbell, clumps $5 per 100; in pots $3 per 100; California, clumps $3 per 100; Luxonne, clumps $4 per 100.
BENJ. CONNELL, Florist. **West Grove, Pa.**
Please Mention the American Florist.

Pansies Worth Raising.

EXCELLENT SEED.
3-16 oz. $1.00; 1 oz. $4.00; up in 8 to 10 days, if properly treated.
FINE STOCKY PLANTS, $4 00 per 1000, f. o. b. express. ☞ **CASH WITH ORDER.**
C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

300,000 Pansy Plants

The JENNINGS Strain.

Fine field-grown, stocky plants, in great variety of colors. All large flowering.
By mail, 75 cts. per 100; express, $4.00 per 1000; 5000, $18.00. Seed of above, $1.00 per pkt.; $5.00 per ounce.
CASH WITH ORDER.
E. B. JENNINGS, L. B. 254, Southport, Conn.
Grower of the Finest Pansies.

PANSY PLANTS

Per 100, 50c.; per 1000, $2.50.
FERNS, 300 assorted.....per 100, $2.50
CASH PLEASE.
JOS. H. CUNNINGHAM, Delaware, O.

Violet Clumps!

Luxonne, $5.00; Admiral Avellon, $4.00; California, $3.00; Russian, $3.00; Swanley White, $4.00.
CANNA CLUMPS. Try some of our pink Cannas.
The Conard & Jones Co., WEST GROVE, PA.

Cannas

To grow on some novelty Cannas in your houses this winter will brighten up things and will pay sixfold in the increase. Besides, it's a good adv. all winter long to your retail buyers who visit the place to get warm and to see what you're going to have. We have made up a set which we know is worth growing on. It contains Allemania, the giant and best of the Italian type; America, orchid-flowered, bronze leaf; Dwarf Florence Vaughan, yellow and red; Mlle. Berat, pink; Francois Gos, pure orange; Secretary Chabanne, orange with deeper markings; Souv. d'Antoine Crozy, scarlet with heavy gold edge; Triumph, dwarf rich, bright red; Inglewood, dark leaf, flowers deep vermilion; Menelek, rich nasturtium red—all A1 high class Crozy sorts, the ten till Nov. 20th for only $1.50.

VAUGHAN'S SEED STORE,
NEW YORK: 14 Barclay St. **CHICAGO:** 84-86 Randolph St.

To Catalogue and Market Men.....
NOW READY!

STRONG CANNA TUBERS

of 1 to 3 eyes.

NEW—Florids, Gloriosa, Surprise, Pres. McKinley. $5.00 per 100.

Mme. A. Bouvier, Flamingo, Alsace, Souv. de Antoine Crozy. $3.50 per 100.

Italia, Queen Charlotte, Chicago, Philadelphia Eldorado, Comte de Bouchand, Papa, Glory de Montet. $2.00 per 100.

Burbank, Florence Vaughan, Egandale, Salmon Queen, Sunset Glow, Mme Crozy, Chas. Henderson A. Bouvier, John Laing, Paul Marquart, Austria, and many more. $1.50 per 100

Full 1000 of Burbank, Austria or Evandale, $8.00
Full 1000 of Florence Vaughan or Queen Charlotte $15.00. (A f others named, 10 per cent. off by the 1000.)

ORDER NOW. Nothing reserved at these figures.
F. O. B. Express or Fast Freight.

Pampas Plumes. Crop 1898.

Size in length, exclusive stems. **First-class in every respect.**

	Per 100
17 to 20 inches	$.75
20 to 22 inches	1.00
22 to 24 inches	1.25
24 to 27 inches	2.00
27 to 30 inches	3.00

Pampas Grove Nurseries Greenland P. O., Fla.
Mention American Florist

Hydrangea Otaksa.

Fine 6-inch pot plants, at $23 per 100
" 5 " " 20 "
DRACAENA INDIVISA, pot grown, 6-inch 20 "
" " " " 5 " 15 "
UMBRELLA PLANTS, 3 and 4-inch, $3 and 4 "
See Convention Number for other stock.
Cash please. **CARL HAGENBURGER, W. Mentor, O.**

THE PRIDE OF THE MARKET.

MARVELOUS ADIANTUM CUNEATUM, 80 per cent profit for purchaser when used for cut fronds. Shipped over 3000 large sizes to well pleased buyers in one week. A trial order will convince you.

5-in., unequaled in size, $25 00 per 100; $240.00 per 1000
4-in., extra large plants, 12 00 per 100; 110 00 per 1000
3-in., good sized plants. 8 00 per 100; 75 00 per 1000
12 at 100 rates. Terms cash.
ANDERSON & CHRISTENSEN, Short Hills, N. J.

St. Louis.

CHRYSANTHEMUMS MONOPOLIZE ATTENTION.—ROSES PLENTIFUL AND CARNATIONS SCARCE.—AMONG THE GROWERS.—MICHEL TAKES ONE IRON FROM THE FIRE.—NEW RETAIL STORES.

Trade for the past week has been rather quiet although chrysanthemums have been coming in a little more freely than at last accounts, some of the very good earlier varieties occasionally bringing as high as $3 per dozen, selling from that all the way down. Some very fine Sunderbruch have been received for which $3 per dozen is asked. Nobody, however, has been found to take them from the wholesaler at these figures. The prevailing impression is that prices obtained for the last two or three years will not be duplicated the coming season. Roses are coming in much more plentifully; they may be said to be rather an over-stock.

In driving around St. Louis county among the carnation growers it was my good fortune to stop at C. C. Sander's place. His carnations are in very good shape, especially Scott and Alaska. The roses, especially Bridesmaid, are looking well. The grounds surrounding the greenhouses, are used for nursery purposes, of which stock he has a fine assortment.

At J. W. Dunford's the finest lot of carnations were benched that it has been my good fortune to see around St. Louis. The cut for the present season promises to be very heavy and the quality will be fully up to his usual standard. He is a great believer in feed and while he has not started as yet he expects to do so shortly. It will be principally applied in the shape of mulching. The violet house is in elegant shape, Californias being especially promising. These are fine companions for the carnations and the cut when the crop comes on will be enormous. Small singles are also grown, it being found last season that these paid as well as the Californias. Doubles are represented by Farquahar, though these have not been given a fair trial until the present season. It is probable if they prove satisfactory they will be grown more extensively next year.

Mrs. Ayers, formerly of the Ayers Floral Co., has opened a temporary store on Grand avenue. There is a handsome store and greenhouse being erected for her next door to the building occupied at present. The completion of this will place three well equipped flower stores within a radius of half a block, with another within one block.

Will Jordan, son of L. M. Jordan, of the Jordan Floral Co., has opened a retail store at 517 Locust street. Mr. Jordan has also under his charge the greenhouses on Kings Highway formerly operated by the Jordan Floral Co. and his retail store in connection with the greenhouses should prove a good combination.

H. G. Berning has succeeded E. H. Michel as president and manager of the St. Louis Cut Flower Co. Mr. Michel is giving his attention to his Old Orchard plant and to the Michel Plant and Bulb Co. and has his hands full.

From present indications the chrysanthemum show will be a success. The only drawback so far appears to be that the plants are a shade late and the best blooms will not be ready for exhibition. Outside of this, however, everything is progressing favorably, both in regard to interest shown by the florists and general public. R. F. T.

THE HARRISH DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent.

KRAFT'S PLANT TONIC

THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. Send for circular and descriptive price list.

THIS INSECTICIDE IS NON-POISONOUS.

KRAFT PLANT TONIC CO., - ROCKFORD, ILL.

Standard Flower Pots...

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

☞ Write us before placing your orders elsewhere.....

CAMBRIDGE TILE MFG. CO., Covington, Ky.





BRANCH WAREHOUSES:
Kearney and Westside Aves., Jersey City, N. J.
Jackson Av. & Pearson St., Long Island City, N. Y.

Standard Pots Made by

Good Railroad Facilities For shipping.
Special Attention Given to Mail Orders, and Special Sizes Made to Order.

KELLER BROS.
NORRISTOWN, PA.

Price Lists Furnished on Application.

THOSE RED POTS

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y,
HARRY BALSLEY, Rep. DETROIT, MICH., 490 HOWARD ST.

SAVE 25 PER CENT

on your FLOWER POTS. Send for price list and Bargains to
KILFINGER BROS. POTTERY, Fort Edward, N. Y.

IF YOU

or your neighbor have any reason to wish a change in the manner in which you are listed in our 1898 Directory, drop us a postal card now, to aid us in the work of revision for the next issue.

THE AMERICAN FLORIST CO.
.....324 Dearborn St., Chicago

The MODEL Extension Carnation Support



QUEENS, N. Y., Feb. 16, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97
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DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.
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Baltimore.

CHRYSANTHEMUMS AND VIOLETS THE ONLY FLOWERS IN DEMAND.—HALLIDAYS' CARNATIONS.—OTHER TOPICS.

Trade has been very slow the past week with nothing in demand but chrysanthemums and violets. The first named are in prime condition and many fine varieties are seen. There is little call for roses and carnations, though there is a marked improvement in quality and a greater abundance.

Our store windows are filled to overflowing with Beauties, Bridemaids, Brides and Meteors. Some of our florists have the carnation craze and have cultivated this sweet flower in great abundance. Halliday Bros. are of this number, having five large houses devoted exclusively to Victor, Daybreak, Tidal Wave, Portia, Wm. Scott, Lizzie McGowan and Flora Hill, all in fine condition.

Samuel Feast & Sons have a new sport from La France; rose; shell pink, large flower, sturdy stemmed and with no thorns; a splendid keeper, which they have named Ekas, after their late foreman, Wm. Ekas.

The Gardeners' Club held its meeting on October 24 with a good attendance. Chas. Seybold gave an interesting talk upon succulents.

Fred. Bauer, formerly with I. H. Moss, Govanstown, has taken J. H. Hantske's place and branched out for himself.

A. R. J.

Milwaukee.

BINZEL & KELLNER WILL SEE THAT THE CREAM CITY HAS A FLOWER SHOW.—NOTES AMONG THE GROWERS.

The city seems sure to have its annual flower show for some one invariably "bobs up" and runs it on their own account whenever the club fails to do so. This time Binzel & Kellner have taken hold of the matter. They will not hire a hall as their new quarters are unusually large. They have issued a premium list that will enable growers of cut flowers to compete, and have arranged for judges. No prizes are offered which will interest others than growers, but they will themselves provide a good display of decorative stock. The show will be free to the public.

Thompson & Sons are growing a large stock of geraniums, hydrangeas, genistas and primroses.

Archie Middlemass' carnations are looking well and he is strong in Boston ferns and Adiantum cuneatum.

C. Zipnick has built another house, increasing his violet stock considerably. His mignonette is more backward than usual this season.

Mr. Zweifle's carnations are very good, including new varieties. His chrysanthemums are to the front.

John Bartels leads in mignonette.

C. B. W.

Wichita, Kans.

H. L. Hunt, late of Jamestown, N. Y., has entered into partnership with W. H. Culp, the firm name remaining W. H. Culp & Co. They have added about 1600 feet of glass to their greenhouses, most of the additional room being planted to carnations. They have a fine location in the best residence portion of the city, and are well equipped to take care of their constantly increasing business. Mr. Culp had the misfortune to fall from a tree which he was topping on the morning of October 29, breaking his right arm near the wrist.

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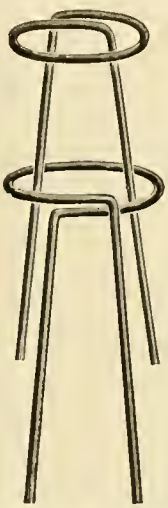

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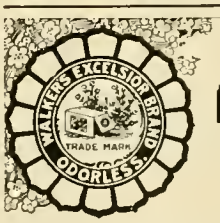
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St. Paul.

BUSINESS SITUATION SHOWS A MATERIAL IMPROVEMENT.—CHOICE STOCK MEETS WITH READY SALE.—GOOD CHRYSANTHEMUMS.—NOTES AND VISITORS.

Trade, which was somewhat dull and backward during the dark, rainy weather which prevailed last month, is improving daily and Beauties, chrysanthemums and all choice stock meets with ready sale.

Flowers of all kinds, except carnations, are abundant and of good quality. Beauties are in good demand, with a supply about equal to the requirements. Meteors, Brides and Bridesmaids are of excellent quality. Woottons, Perles and Sunsets are in favor and are readily disposed of. Carnations are still somewhat off crop, with blooms of indifferent quality, due in a great measure to hot weather early in the season, which forced everything out.

The chrysanthemum season is now fairly opened. Mrs. Henry Robinson in white, Pennsylvania in yellow and Autumn Glory in pink are a fine trio, just now at their best. Glory of Pacific is disappointing on account of its uneven color. The most prominent of the lesser lights now to be seen are Whilldin, Domination, Ivory, Yellow Queen and Elvena. Wholesale prices range from $1 to $2 per dozen.

L. L. May & Co. have a very promising sport from Mrs. Bradt carnation, a beautiful rich red of enormous size and fine keeping qualities. This firm is cutting some very choice Siebrecht roses, this variety improving with them each year.

Harrisii bulbs are reported as badly diseased by most of the growers. Longiflorum from Japan are just now arriving and it will keep our florists busy until Easter to get them into bloom.

Visitors: Joseph Rolker, C. P. Braslan, S. Y. Haines, Arnold Ringier.

FELIX.

Newburyport, Mass.

E. W. Pearson is cutting some fine chrysanthemums and his Daybreak carnations are the best in this neighborhood.

Kent & Marsh have some fine white seedling carnations which bid fair to make a name in the market. They also have a fine magenta carnation, but it is rather early to judge it, as this is its first season.

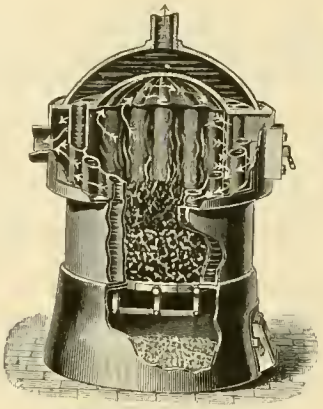
G. Coffin, who five years ago sold out his establishment on Chapel street to C. G. MacGregor has again gone into the business. He has erected a greenhouse 12x50 and is growing carnations and general bedding stock.

Jos. L. Freeman, the Amesbury florist, expects to start shortly for Los Angeles, Cal., where he intends to go into growing gladioli, callas and tuberoses on a large scale for the wholesale market. His mother will probably carry on his business here.

E. P

LOWELL, MASS.—Edwin Sheppard is the latest addition to the lengthening list of victims of the nimble palm swindler. The method of procedure was the same as often described in these columns and Mr. Sheppard's debit in the transaction is about $50.

SOUTH BEND, IND.—The annual chrysanthemum show will be given at the home of Clem Studebaker about the middle of the present month.



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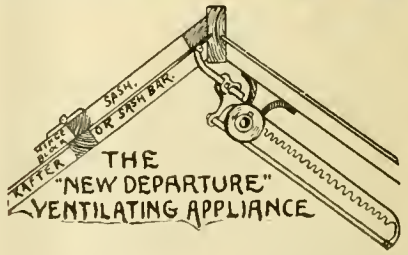
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Providence, R. I.

Business reports are fairly good. Chrysanthemums and roses have begun to come in quite plentifully. Violets are a little shy as yet. Carnations have held their sway this fall and the quality has been good for the early crop.

The suburban establishments of A. W. Medbury, W. E. Nichol, W. Maxfield and W. C. Diamond, of Barrington, who make a specialty of carnations and violets, have houses well stocked with flattering prospects of a good cutting this season. Geo. E. and E. R. Seymour, of Warren, have a fine stock of carnations and violets.

Messrs. Macrae, Williams, Hazard and the Rhode Island Greenhouses are the principal growers of chrysanthemums for special cut flower trade. Prices this year are low compared with former years. Good well grown flowers bring from 50 cents to $1.50 per dozen; it is only fancy blooms that bring the maximum price.

The chrysanthemum exhibition to be held by the Rhode Island Horticultural Society will be on November 7–11. Fears are expressed by a number of would-be exhibitors that the date of the show is about ten days early, as many varieties will not be at their best.

The next meeting of the Florists' and Gardeners' Club of Rhode Island will assume the nature of a ladies' night. An efficient committee has the affair in hand and no doubt success will be the result.

James Crawshaw has opened a branch store on Westminster street in connection with his business in Olneyville. The store is very attractive.

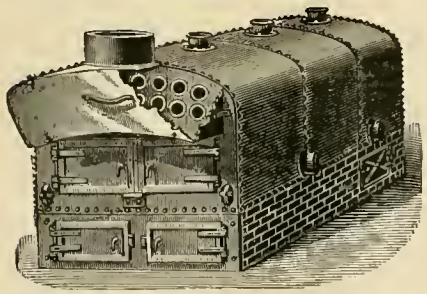
J. F. Parks & Co. have opened at their winter quarters at 142 Westminster street and have put in a commodious refrigerator for cut flowers. Fannie E. Carter manages the store with her usual aptitude.

James Day, formerly at the greenhouse on the Eaton farm, has gone out of business and is employed at Geo. Johnson & Son's.

Wm. Hoffman, of Pawtucket, has returned from his trip to Europe, much improved in health, after a three months' vacation. LITTLE RHODY.

DES PLAINES, ILL.—F. L. Pruse is growing 32,000 carnations, a slight increase over last year. His leading varieties are Daybreak, Lizzie McGowan, Wm. Scott and Portia. He has both Jubilee and Flora Hill on trial, but they do not do very well and he thinks his soil is too light for them.

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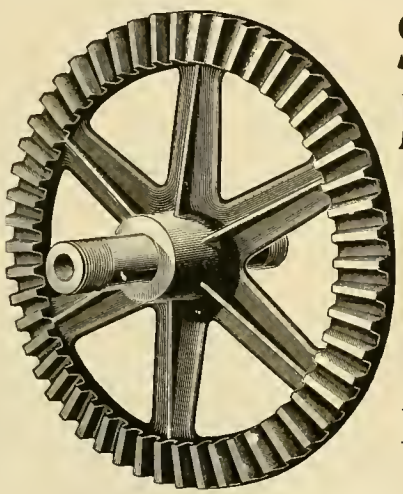
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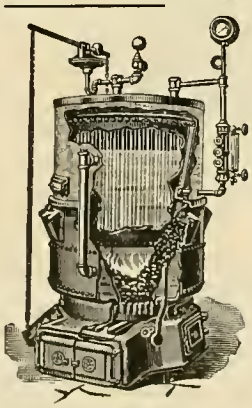
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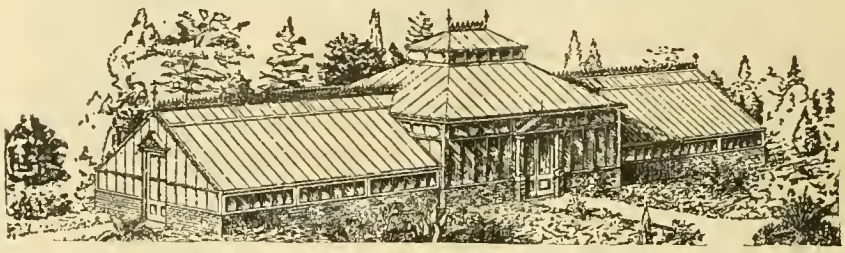
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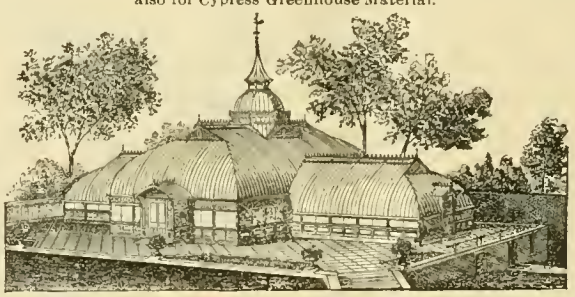
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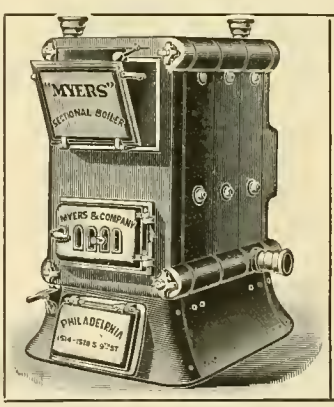
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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fifteenth annual meeting will be held at Detroit, Mich., August, 1899.

OFFICERS-ELECT [to be installed Jan. 1, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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THE EXHIBITIONS.

Chicago.

Superintendent Rudd had the eighth annual chrysanthemum show of the Horticultural Society of Chicago in full running order on Tuesday morning, the 8th. The judges were John F. Cowell, A. Herrington, Emil Buettner. The Keith Building, corner of Wabash avenue and Monroe street, with two floors, each 125 x175 feet with fifteen foot ceiling, gave the best floor space ever available to this society for the flower show.

The walls and stairways had been decorated with a carload of oak branches, mixed with a liberal supply of wild smilax, but the grand and attractive feature was the liberal electric lighting. Festoons of incandescent lights with metal reflectors were arranged in some twenty lines on each floor and were so adjusted that the same could be economically used with the available outside light. The floor space was much better adapted for grouping and passage ways for visitors than the old armories, and Superintendent Rudd was not slow to avail himself of this fact.

The weather is what the craft have come to call regular chrysanthemum weather. Blustering rain was the rule Tuesday and Thursday, with a slight let up on Wednesday. The box office shows $500 shortage over last season on Wednesday night, and a great deal more Thursday night.

In arranging the exhibits, the place of honor on the first floor, a space some fifteen by twenty feet with a cordon of electric lights was allotted to J. Algots, gardener to Mrs. Geo. M. Pullman, and the large ferns and palms which he used were wisely chosen, reaching well into the upper space and giving a tropical effect. Next in decorative plants was Geo. Wittbold's fine group, the arrangement of which in the south-west corner was especially admired, and north of these was an excellent display from Head Gardener Stromback, of Lincoln Park, containing some very choice palms, crotons, pandanus and anthuriums. Ernst Weinhoeber made a neat display of palms in the west center, embellished with some cut blooms of chrysanthemums and roses. Well grown geraniums, dwarf as well as standard, shown by four different exhibitors in lots of ten well scattered through the building, supplied patches of color not available in the chrysanthemums.

The show of chrysanthemum plants this time was perhaps a little scant, hardly equal to former seasons, and as we have stated, nearly all exhibitors were handicapped by the fact that the plants would not be ready for a week or ten days. Nevertheless, there were some very excellent specimens in the bush varieties, and quality nearly made up for lack of quantity. In the standards Chicago has never had a better exhibit. Those grown by Robert A. Mueller, gardener for A. S. Trude, as well as those from Vaughan's Greenhouses, were excellent. Two specimens of grafted plants, showing a dozen varieties, one a standard by Robt. Mueller, and the other fan-shaped from Vaughan's, attracted much attention.

In the single stem classes, Henry Smith and Crabb & Hunter, of Grand Rapids, Mich., showed excellent work, the former taking first with twenty-five magnificent Bonnaffons and the latter first in white with a double block of Mrs. H. Robinson. Mr. W. N. Rudd won the prize premium in a mixed block with Viviand-Morel and Mrs. Perrin. Vice-president Uihlein, A. Skoldager, gardener, displayed a very extensive collection of orchids arranged on rock work while an aquarium with aquatics and gold fish embellished the display. Another feature in Mr. Uihlein's exhibit was several blocks of ice in which handsome cut orchids and ferns had been frozen.

The handsome geraniums, whose effective coloring we mentioned above, were fully equal if not better than those shown last year, and in larger numbers. C. W. Johnson, at Mr. Rudd's place, Vaughan's display and the grafted ones from Mr. Mueller were all good. Chas. A. Samuelson made an excellent display of cut flowers, chrysanthemums, roses, violets, etc., handsomely arranged in silver vases, with a background of palms and Asparagus Sprengerii. The use of the latter in a general way, was almost a feature of the show, half a dozen very fine plants being effectively placed on both floors.

The second floor was devoted to cut blooms. The classes of cut blooms and the table decorations, the latter being shown daily after Tuesday, were exceptionally good. The display was far superior to last year, competition being especially strong in classes of twenty-five blooms of a color and in the classes of twelve, twenty and forty varieties. The awards in these as well as other classes

we have mentioned, will be found in part in this issue. The international classes were shown from the following states: Colorado, Illinois, Indiana, Maryland, Michigan, Missouri and Ohio.

Wednesday was rose day and the entries were not as full as in former seasons. The South Park Floral Company, of New Castle, Ind., did themselves proud by winning first prize on American Beauties. Bassett & Washburn were certainly a very close second, their stock in foliage, stem and bloom being much admired. J. A. Budlong showed some excellent Beauties, Brides and Bridesmaids. Wietor Brothers showed Brides and Henry Smith's Meteors were very fine.

The table decorations, which were first shown Wednesday, were awarded prizes as follows: C. A. Samuelson, first with a compact center bunch of white, Gretchen Buettner, trimmed with Asparagus Sprengerii; Klunder-Thiele Floral Co., won second, with a high vase of Modesto, and ornamented at the base with adiantums and small chrysanthemums. The Art Floral Company were given third place with a very artistic vase of Niveus, the base trimmed with white chrysanthemums and Asparagus Sprengerii. This table was much admired. Messrs. Anderson, Lange and Wittbold made a creditable showing on the second day. Roses were prescribed for the table decorations Thursday and the American Beauty was used on four tables out of six, the exceptions being Geo. Wittbold's decoration with Bridesmaids and the Kaiserins used on the Anderson Floral Company's table, supplied by Reinberg Bros., the latter taking first prize; the Art Floral Company was second; A. Lange third.

The Illinois Cut Flower Co., supplied chrysanthemums for the Samuelson, Anderson, Lange and Klunder-Thiele tables on Wednesday.

Messrs. Bassett & Washburn supplied Beauties for the Anderson, Lange and Samuelson tables on Thursday. Messrs. Weitor Bros. supplied the Beauties for the Klunder-Thiele, Art Floral and Lange tables on Thursday. Mr. Geo. Wittbold used his own roses.

AWARDS.

Cut blooms of chrysanthemums:

Twenty-five blooms, one variety, white, first, W. N. Rudd, Mt. Greenwood, Ill., with Mayflower; second, Bassett & Washburn, Chicago.

Twenty-five blooms, one variety, yellow, first, Hinsdale Rose Co., Hinsdale, Ill., with Major Bonnaffon; second, W. N. Rudd.

Twenty-five blooms, one variety, pink, first, W. N. Rudd with Autumn Glory; second, E. G. Hill & Co., Richmond, Ind.

Twenty-five blooms, one variety any other color, first, E. G. Hill & Co., with Nyanza; second, W. N. Rudd.

Twenty varieties, one bloom each, first, E. G. Hill & Co., second, W. N. Rudd.

Twelve varieties, one bloom each, first E. G. Hill & Co., second, W. N. Rudd.

Twelve blooms, one variety, competition limited to varieties in commerce named after Chicago ladies; Mrs. John J. Glessner, Mrs. Martin Ryerson, Miss Florence Pullman, Mrs. Wm. C. Egan, Mrs. W. H. Rand, Mrs. Geo. M. Pullman, Mrs. Arthur J. Caton, varieties eligible to compete; premium a silver cup valued at $25, which went to E. G. Hill & Co., for Mrs. Wm. C. Egan.

Six blooms, one variety, white, first, E. G. Hill & Co., with Mrs. Seulberger, second, W. N. Rudd.

Six blooms, one variety, yellow, first, W. N. Rudd with Modesto, second, E. G. Hill & Co.

Six blooms one variety, pink, first, W. N. Rudd with Mrs. Murdock, second, J. Hartshorne, gardener to H. N. Higinbotham.

Six blooms, one variety, red, E. C. Hill & Co. with Casco, second, Crabb & Hunter.

Six blooms, one variety, bronze, E. G. Hill & Co. with Bruant, second, W. N. Rudd.

Six blooms, one variety, any other color, W. N. Rudd with Henry Nanz; second, E. G. Hill.

Collection, named varieties, one bloom each, not less than forty varieties, first, E. G. Hill & Co.; second, N. Smith & Son.

Collection anemone varieties, one bloom each, not less than fifteen varieties, N. Smith & Son.

International competition:

Twelve blooms, twelve varieties, Colorado, Daniel B. Fisher, Denver; Illinois, J. Hartshorne; Indiana, E. G. Hill & Co.; Maryland, E. Weber & Sons; Michigan, N. Smith & Co.; Missouri, W. A. Shinfilt; Ohio, Theo. Bock, Hamilton.

Twelve blooms, twelve varieties, competition restricted to prize winning exhibits in the international classes.



EXHIBIT OF THE ANDERSON ART CO. AT THE CHICAGO SHOW.

A protest having been filed in the International contest, the winning entry for the grand prize was disqualified and the remaining entries rejudged, with the result that the prize was awarded to James Hartshorne, the Illinois competitor.

Cut blooms of roses:

Twenty-five American Beauties, first, South Park Floral Co.; second, Bassett & Washburn.

Forty Kaiserin Augusta Victoria, first, Bassett & Washburn; second, South Park Floral Co.

Forty Bride, first, South Park Floral Co.; second, Bassett & Washburn.

Forty Bridesmaids, first, Bassett & Washburn; second, South Park Floral Company.

Forty Meteor, first, Henry Smith, Grand Rapids, Mich.; second, Bassett & Washburn.

Forty Perle, first, Bassett & Washburn; second, Wietor Bros.

Twenty-five any other variety Bassett & Washburn for Mrs. Robt. Garrett.

Six American Beauty, J. A. Budlong.

Twelve Bride, J. A. Budlong.

Twelve Bridesmaid, J. A. Budlong.

Twelve blooms of new rose never before exhibited in this country silver cup awarded to J. W. Dunlop, Toronto, Canada, for Lady Dorothea.

The awards for table decorations were made in the following order: First, Chas. A. Samuelson; second, Klunder-Thiele Floral Co.; third, Art Floral Co.; fourth, Anderson Floral Co. Messrs. A. Lange and Geo. Wittbold were also exhibitors in this section.

Chrysanthemum plants:

Specimen plant, white, first, W. N. Rudd with Helen Wright, second, Vaughan's Seed Store; yellow, first, W. N. Rudd, with H. Hurrell, second, Vaughan; red, W. N. Rudd, first with Defender, Vaughan second; bronze, Vaughan's Seed Store first; any other color, Vaughan first with C. B. Freeman.

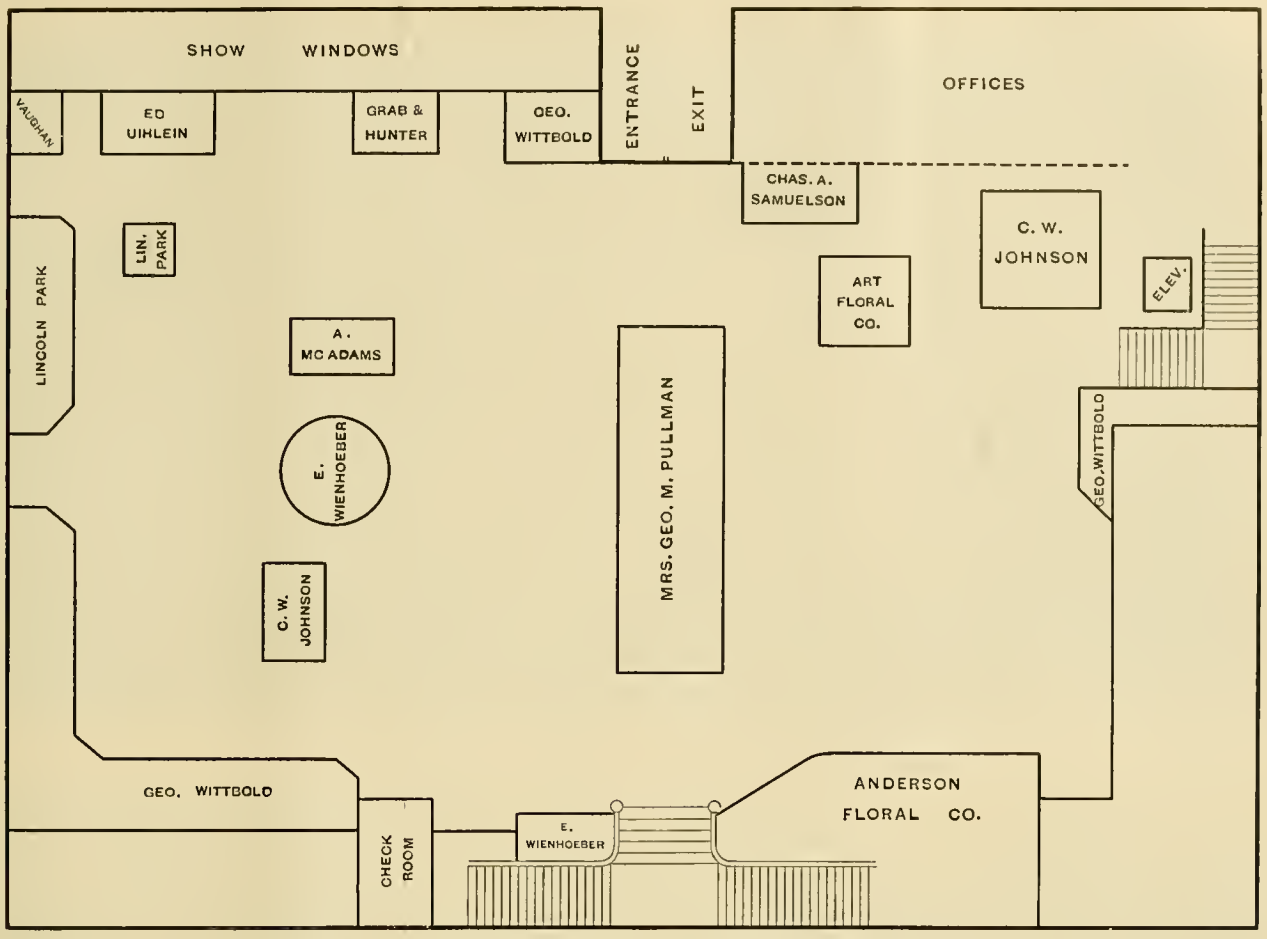
Specimen standard not less than thirty inches high, white, W. N. Rudd first with Mrs. Ryerson, Robt. Mueller, gardener to A. S. Trude, second. Standard not less than thirty inches high, pink, W. N. Rudd first with Mrs. Murdock, Robt. Mueller second. Yellow standard, Robt. Mueller first with W. H. Lincoln, W. N. Rudd second.

In the class for five standards Vaughan was first with W. H. Lincoln, Mrs. C. B. Freeman, The Bard, Beauty of Truro and Louis Boehmer, Robt. Mueller second. W. N. Rudd was awarded first for five standards in 10-inch pots, Robt. Mueller second. The prize for five standards in 8-inch pots was secured by Vaughan's Seed Store.

Twenty-five plants grown to a single stem, Crabb & Hunter, Grand Rapids, Mich., first with Mrs. Henry Robinson, A. McAdams second; twenty-five yellow, Henry Smith, Grand Rapids, Mich., first with Bonnaffon, Crabb & Hunter second; twenty-five pink, W. N. Rudd first with Viviand-Morel, Crabb & Hunter second; ten plants of W. H. Chadwick, first W. N. Rudd; one plant naturally grown, first Vaughan's Seed Store with The Bard, second W. N. Rudd; one plant grown single stem, first Crabb & Hunter with Mrs. Henry Robinson, second, Henry Smith.

Cut blooms of carnations:

Special premiums for fifty blooms of Argyle, first Wietor Bros., second Chicago Carnation Co., Joliet, Ill.; fifty blooms Flora Hill, first Bassett & Washburn, second W. N. Rudd; fifty Lizzie



GENERAL PLAN OF GROUPING ON MAIN FLOOR AT CHICAGO SHOW.

McGowan, first Hinsdale Rose Co., second, Wietor Bros.; fifty Alaska, first, Wietor Bros.; second, South Park Floral Co., New Castle, Ind.; fifty any other white, first, Bassett & Washburn; second, South Park Floral Co.; fifty Jubilee, first, Bassett & Washburn; second, Wietor Bros.; fifty Mrs. McBurney, first, W. N, Rudd; second, Bassett & Washburn; fifty Wm. Scott, first, Bassett & Washburn; second, Wietor Bros.; fifty Daybreak, first, Hinsdale Rose Co.; second, Bassett & Washburn; fifty Triumph, first, Wietor Bros.; second, Bassett & Washburn; fifty any other pink, not lighter in color than Wm. Scott, first, W. N. Rudd, with Cerise Queen; second, Hinsdale Rose Co., with Bridesmaid; fifty any other pink, lighter in color than Wm. Scott, first, Chicago Carnation Co., with Victor; second, South Park Floral Co., with Albertini; fifty Armazindy, first, Wietor Bros.; second, Chicago Carnation Co.; fifty Helen Keller, first, Chicago Carnation Co.; second, Bassett & Washburn; fifty blooms any other striped except those with yellow ground, first, Bassett & Washburn; fifty blooms Mayor Pingree, first, Bassett & Washburn; second, W. N. Rudd; fifty any other yellow, first, Bassett & Washburn; second, Chicago Carnation Co.; twenty-five white, introduction of 1898, first, Bassett & Washburn with White Cloud; second, Wietor Bros. with Evelina; twenty-five pink, introduction of 1898, not lighter in color than Wm. Scott, first, W. N. Rudd; with Cerise Queen; second, Wietor Bros. with Argyle; twenty-five pink, introduction of 1898, lighter in color than Wm. Scott, first, Chicago Carnation Co. with Mrs. Jas. Dean; twenty-five red, introduction of 1898, first, Wietor Bros. with Bon Ton; second, Chicago Carnation Co., also with Bon Ton; twenty-five any other color, introduction of 1898, first Chicago Carnation Co. with Gold Nugget (yellow); fifteen blooms Lizzie McGowan; first, Fred. Bahr, Highland Park, Ill.; fifteen blooms Jubilee, first, Jas. Hartshorne; fifteen blooms Mrs. McBurney, first, South Park Floral Co.; fifteen blooms Tidal Wave, first, Fred. Bahr; fifteen blooms Daybreak, first, Jas. Hartshorne; second, South Park Floral Co.; fifteen blooms any other pink not lighter in color than Wm. Scott, first, F. R. Hills, Maywood, Ill.; second, Jas. Hartshorne; fifteen blooms any other pink, lighter in color than Wm. Scott; first, Jas. Hartshorne; fifteen blooms Armazindy, first, Jas. Hartshorne; fifteen blooms Helen Keller, first, South Park Floral Co.; fifteen blooms Mrs. Geo. M. Bradt, first, Jas. Hartshorne; fifteen blooms Mayor Pingree, first, Jas. Hartshorne; fifteen blooms pink, introduction of 1898, not lighter in color than Wm. Scott, first, Jas. Hartshorne.

Miscellaneous plants:

Most interesting plant of any kind, Robt. Mueller first with chrysanthemum bearing fourteen different varieties, including Marguerites; second Vaughan's Seed Store.

Ten geraniums, not over 10-inch pots, white, first, Vaughan's Seed Store; second, W. N. Rudd.

Ten geraniums, pink, first, Vaughan's Seed Store; second, W. N. Rudd.

Ten geraniums, red, first, Vaughan's Seed Store; second, W. N. Rudd.

Ten geraniums, ivy leaf varieties, W. N. Rudd.

Ten geraniums, variegated foliage variety, first, J. Cook, of Downer's Grove, Ill.; second, W. N. Rudd.

Ten begonias, not less than five varieties in not less than 10-inch pots, first, J. Algots; second, James Hartshorne.

Ten cyclamens, first, Fred Bahr; second, Kalous Bros.

Collection of cypripediums, E. G. Uihlein.

Collection of orchids, other than cypripediums, E. G. Uihlein.

Collection of ferns, first, J. Algots; second, Geo. Wittbold.

Ten foliage plants, six varieties, second divided between E. G. Uihlein and Geo. Wittbold.

Palm, first, Geo. Wittbold; second, J. Algots.

Basket of Asparagus Sprengerii, first, Bassett & Washburn; second, W. N. Rudd.

Display of stove decorative and greenhouse plants arranged for effect, first, Geo. Wittbold; second, J. Algots.

Same display open only to commercial florists, Geo. Wittbold.

Two hanging baskets, first, J. Algots; second, Geo. Wittbold.

Araucarias, first, Art Floral Co.; second, Robt. Mueller.

Dracæna, prizes divided between Geo. Wittbold and J. Algots.

Boston fern, first and second, J. Algots.

Adiantum Farleyense, first, Art Floral Co.; second, Geo. Wittbold.

One other fern, first, J. Algots; second, Vaughan's Seed Store.

Foliage plant, J. Algots.

Six araucarias, Geo. Wittbold.

Special nine geraniums, W. N. Rudd.

VISITORS.

R. Hoffman, Elkhart, Ind., Henry Smith, Grand Rapids, Mich., M. Luetschy, Lake Geneva, Wis., A. Dimmock, New York, N. Y., H. Van Velden, Grand Rapids, Mich., William Wallace, Colorado Springs, Colo., Miss Ella Kaber, La Porte, Ind., E. G. Hill, Richmond, Ind., J. Austin Shaw, New York, N. Y., S. S. Skidelsky, Philadelphia, Pa., S. A. Baur, Rockford, Ill., A. Johnson, Grand Rapids, Mich., E. A. Suder, Toledo, Ohio, Elmer D. Smith, Adrian, Mich., F. L. Bills, Davenport, Iowa, Wm. Knees, Moline, Ill., A. C. Rott, Bloomington, Ind., J. M. Smely, Aurora, Ill., J. D. Thompson, Joliet, Ill., A. J. Fidler, Racine, Wis., James Currie, Milwaukee, Wis., George Souster, Elgin, Ill., J. A. Evans, Richmond, Ind., William Dittman, New Castle, Ind., F. E. Purcells, Lake Forest, Ill., Mr. and Mrs. Wilcox, Council Bluffs, Iowa, A. Klockner, Milwaukee, Wis., W. E. Dalwig, Milwaukee, Wis., Prof. Jno. F. Cowell, Buffalo, N. Y., Mrs. Ann C. Hurd, Havana, Ill., A. Herrington, Madison, N. J., Jas. Hartshorne, Joliet, Ill., Geo. Rentschler, Janesville, Wis., Fred Rentschler, Madison, Wis., Albert Sunderbruch, Cincinnati, Ohio, Frank Kuehne, DeKalb, Ill., E. E. Boynton, Sycamore, Ill., A. C. Kohlbrand, Cincinnati, J. H. Brumby, Benton Harbor, Mich. From Milwaukee: W. H. Ellis, Fred Holton, H. Staeps, William Edlefsen, N. Zweifel. Otto Sylvester and wife, Oconomowoc, Wis.

Philadelphia.

That the chrysanthemum is not done is evidenced by the good displays of these still popular flowers at the exhibition of the Pennsylvania Horticultural Society, which opened November 8. There were more large chrysanthemum plants than last season, and most of them better grown, but a little too much green-plant-stake seed had evidently been sown in many of the pots and had thrived wonderfully. The stake also entered somewhat into the competition; in fact, in the premium offered for the best pair of plants it was stipulated in the schedule that not more than eight stakes would be allowed to a plant. The varieties that won this prize were Mutual Friend and Mrs. Emerson. The first prize specimen plant was Mrs. H. Robinson; second, Frank Hardy. First specimen plant, any color, was won with Georgiana Pitcher; second, with Sam Weller. The prize six plants with single blooms, was won with Minerva; second with Mrs. Geo. Morgan and third Mrs H. Robinson. The prize for four Japanese varieties was secured with Minerva, Golden Queen, Mutual Friend and Geo. W. Childs. The best three yellow were Major Bonnaffon, Georgiana Pitcher and Lincoln, The best three of last season's introduction were Defender, Sunstone and Bonnie Dundee. Best four plants in four colors were Defender, Mrs. McK. Twombley, Golden Gate and Ostrich Plume.

Yellow varieties predominated in all the exhibits, and in a look over the whole from the platform at least half appeared to be of that color. The center of the floor contained Hugh Graham's exhibit, which was beautifully arranged and received the gold medal of the society as a work of decorative art. There was about the usual display of cut blooms and John Cullen, gardener to Percival Roberts, Jr., was easily first with his magnificent display of over five hundred blooms, embracing sixty-five varieties. Hugh Graham's flowers were also of the finest grade, and Philadelphia and Pennsylvania as grown by him are conspicuous wherever shown. He won eleven first and four second premiums.

John N. May won first prize with Mme. Carnot for the best new yellow, also a certificate of merit. This was clearly the largest flower in the show, the blooms measuring nine inches in diameter as they stood. The prize for six blooms crimson was also awarded to Mr. May on John Shrimpton. An exhibit of pompons by him was very pretty and received first prize. He also received first for best American variety, not disseminated, on six blooms Silver Wedding. Best American variety, pink, was given to the American Rose Co., Washington, for a sport of Pink Ivory. A grafted plant containing seventeen varieties attracted considerable attention and was awarded a special prize.

The foyer was a fern paradise and contained the various collections of this class of plants. There were many perfect specimens, and in this department we believe the show exceeded that of any other season. In the lower hall the H. A. Dreer Co. made a splendid display of handsome palms, ferns, bays, laurels and other decorative plants. A decorated tank contained water lilies. Their bank of ferns in pans consisted of forty-one varieties, all very well grown and several of them new and rare. Jas. Hurley received a certificate for a remarkably fine specimen of Nephrolepis Bostoniensis. Robert Craig & Son exhibited a fine lot of crotons arranged on a circular table. John Shellem's collection of crotons were especially well colored and he received first prize for the best twelve and first for specimen. H. Alburger's group of standard chrysanthemums were very pretty plants and attracted considerable attention. A very unique exhibit was made by Jos. McGregor, who staged three dozen very fine plants in 8 and 9-inch pots with from twelve to twenty blooms on each.

Mr. Clinkaberry's table of over fifty plants of orchids in flower was also a very attractive spot. Renanthera Lowii with a four-foot spike of bloom was labled "from the Philippines." He received a certificate of merit. Westcott Brothers' group of palms was very well arranged as was the one entered by John Hobson, gardener to E. A. Schmidt, Radnor. These groups were arranged against the wall and did much to relieve the gay colored chrysanthemums. John Thatcher exhibited a very well flowered plant of Ixora Williamsii, also Aralia Guilfoylei, a fine specimen six foot high and well colored. He received first prize for a collection of ferns.

The rose exhibit called out quite a collection. The feature of this display were the new candidates for public favor, chief among which was Liberty, exhibited by Ernst Asmus and Alexander Scott, which Robert Craig says is the best introduction since the Bridesmaid. John Cook showed a fine full blush seedling and the American Rose Co. exhibited Golden Gate and a new one, Mme. Jules Groliez.

On carnation day a choice lot of blooms were staged, quality rather than quantity being the rule. The principal contest was for the Robert Craig silver cup for the best American seedling not yet disseminated. Out of eight entries it soon narrowed down to an unnamed seedling of John Shellem's and Mrs. T. W. Lawson, Peter Fisher's entry from Ellis, Mass. The judges finally gave the prize to the Mrs. T. W. Lawson. The American Rose Co. has a fine variety in Mephisto, a good red, almost the color of Portia. A. M. Herr, Lancaster, exhibited some California seedlings, at least two of which are good. Dailledouze Bros. had a vase of a large white faintly streaked, called J. Whitcomb Riley. Craig & Son had six good commercial sorts in Painted Lady, Victor, Mrs. F. Joost, Evelina, Jubilee and Gold Nugget. A vase of the new Melba was conspicuous. It is an ideal pink and a large flower.

H. F. Michell made an exhibit of his specialties and the H. A. Dreer Co. had a



ONE OF GEO. WITTBOLD'S EXHIBITS AT THE CHICAGO SHOW.



VAUGHAN'S SPECIMEN CHRYSANTHEMUMS AT THE CHICAGO SHOW.

similar display which included Japanese bronze jardinieres. The Stoke-Pogis Nurseries ornamented the street entrance and foyer with a choice collection of their evergreens in tubs, all correctly named. Inside the foyer the Andorra Nursery Co. had a display. K.

Boston.

The annual chrysanthemum show of the Massachusetts Horticultural Society is now on, favored with the most delightful weather and an unprecedented attendance of the craft from distant points. There is no exhibition in the country that can compare with this in the high quality of the exhibits; this is as true this year as it was last year. The flowers shown are simply wonderful and the entire absence of any but high grade blooms is especially noticeable. The lower hall holds the cut flower exhibits. The arrangement of tables is decidedly awkward, the effect poor and the hall badly overcrowded. At the time of writing, the prizes are not all awarded. The big vases, which are always a prime attraction at this show, are well filled with enormous, long stemmed blooms, in arranging which the operators required the use of a step ladder. Robert Laurie wins first prize with a vase of Peter Kay (Jeannie Falconer) and Alex. McKay, C. H. Souther, C. Sandiford, gardener, and Miss E. J. Clark, John Ash, gardener, follow in order named.

The vases of ten long stemmed blooms each make a big showing. Those from Waban Conservatories are superb, especially Eugene Dailledouze, Phenomenal, Frank Hardy, Jeannie Falconer, Autumn Glory, Mrs. Jerome Jones, Rustique and Golden Wedding. Alex. McKay's Modesto, Chas. Davis, Viviand-Morel, Maj. Bonnaffon and Eureka, in the same classes, are also grand. Eureka is a splendid white, which would lead the race if Frank Hardy were not in the way. The predictions for the latter variety, made last year, are more than verified. No variety on exhibition here attracts so much admiration, and it is well worthy of it. A surprise to all are the blooms of Pink Ivory shown by H. Dumaresq, W. Downs, gardener. They beat anything ever seen here, either in white or pink.

The classes of six, twelve and twenty-five blooms in single vases are very extensive and the great round specimens stand rank after rank, in a profusion that must fairly bewilder the committees that have to judge between them. Among the prominent contributors in this section are Mrs. P. B. Cheney, John Barr, gardener, Jas. L. Little, Geo. B. Green, gardener Jas. Nicol, S. J. Goddard, Edw. Whitin, O. B. Robb, gardener, A. F. Whitin, Thos. Howden, gardener, N. T. Kidder, W. J. Martin, gardener, E. S. Converse, D. F. Roy, gardener, C. A. Souther, C. Sandiford, gardener, Dr. C. G. Weld, K. Finlayson, gardener, J. H. White, J. Wheeler, gardener, J. W. Howard and Robert Laurie; among the finest specimens shown are Laurie's Inter Ocean, Silver Cloud and Pluto; Howard's Chas. Davis and Mrs. O. P. Bassett; Kidder's Evangeline, Little's Minerva; Cheney's Mrs. H. Weeks, Modesto, Mayflower and Philadelphia, and the anemones from Souther and Converse. J. H. White's twelve incurved Chinese are gems in their way, but with the constantly widening gap in size between these and the Japanese they look smaller and smaller to the eye each year, and but little notice is taken of them. In the seedling classes are but two entries, and the only other novelties are two vases of Mrs. Trainor L. Parks from Ernst Asmus, and a pearly colored incurved sport from Glory of Pacific, shown by J. H. Playdon.

Plants occupy the upper hall. The main contributors are J. S. Bailey, Wm. Donald, gardener who wins first prize for twelve specimens and Mrs. B. P. Cheney, John Barr, gardener, who leads in a number of the other classes. Mr. Bailey's winning twelve consist of Columbine, Theo, Iora, Geo. W. Childs, Vernal Fall, Mrs. Cleveland, The Bard, Golden Trophy, Louis Boehmer, John Shrimpton, Gretchen Buettner and Marion Henderson. Mr. Bailey's specimen anemone Garza is much admired. Mrs. Cheney's plants are exceedingly handsome. Notably fine are her specimens Arethusa, Marion Henderson, Charity, Defender and Mrs. J. G. Breer. In the estimation of many the most perfect plant in the hall is one of Pink Ivory exhibited by James Garthly. The sixty mile trip from New Bedford seems not to have disturbed a petal. The plants grown to single stem and flower number about two hundred and the names of Dr. Weld, Mrs. A. W. Blake, Henry Wild, gardener, and Jas. L. Little are prominent on the prize cards. They are all remarkably well finished specimens of this class.

A fine table of Begonia Gloire de Lorraine from Wm. Edgar is a prominent feature in the hall and is greatly admired by the visitors. On a centre table are arranged the roses, carnations, etc. The sensation of this section is a vase of the new rose, Liberty, from Ernst Asmus. A silver medal was awarded it and the general verdict seems to be that it is the greatest find of recent years. John H. Taylor's new pink rose, Admiral Dewey, and J. H. Dunlop's Lady Dorothea are also shown and have received honorable mention. J. N. May shows a pretty pink carnation named Melba, Peter Fisher shows Mrs. T. W. Lawson and Donald Macgregor has a seedling carnation, marked No, 9, color resembling the Lawson, and which has every appearance of being a winner.

St. Louis.

The eighth annual chrysanthemum show, held this week under the management of the St. Louis Florists' Club, may be said to have been fairly satisfactory in all respects, although the weather was very unfavorable and the showing at the opening was not the equal of previous years. The exhibition was held in the Coliseum and afforded a far finer view

than that which could be obtained in Music Hall, in which the previous shows have been held. The exhibits from out-of-town competitors were larger than had been expected.

Following are the premiums awarded:

CHRYSANTHEMUMS—CUT BLOOMS.

Best forty-eight, eight varieties, E. G. Hill & Co., first; Michel Plant and Bulb Co., second; Gus Eggling, third. Among the varieties of note shown by Hill & Co. were Mrs. Geo. Morgan, M. B. Verlot, Fee du Champsaur and Mrs. W. C. Egan.

The West End Floral Park took first for twenty-five white with Mrs. Robinson; W. E. Jordan, second with Niveus, and H. Weber & Sons third with the same variety.

Best vase of white blooms was Georgiana Pitcher, exhibited by E. G. Hill & Co.; second went to W. H. Chalfant.

Mme. Rossenam was judged to be the best twenty-five yellow as exhibited by Hill & Co.; the West End Floral Park was second and W. E. Jordan third.

CUT ROSES.

For best twenty-five Wootton Ellison & Tesson were first; C. Young & Sons Co., second; F. J. Fillmore, third.

W. J. & M. S. Vesey had the best twenty-five Bridesmaids; Fillmore, second; Ellison & Tesson, third.

On best twenty-five Perle J. F. Ammann was first; Young & Sons, second; Fillmore, third.

There were but two competitors on American Beauties, Ellison & Tesson winning first.

CHRYSANTHEMUM POT PLANTS.

For best single specimen, white, C. Beyer; yellow, A. Meyer; pink, C. Beyer; any other color, C. Young & Sons Co.

On best ten plants in not over 10-inch pots, Wm. Schray was first; best five, C. Beyer.

Max Hergad had the best plant naturally grown. Young & Sons were first for plant with twelve flowers.

On three plants, white, pink and yellow Section 9, C. Beyer won; Sec. 10, Wm. Schray; two white, two yellow, G. B. Windler; three specimens, any color, Wm. Schray; three plants, different colors, Wm. Schray; three plants, Sec. 14, Wm Schray; Sec. 15, A. Meyer; three specimens, any color, Young & Sons; three specimens, assorted colors, Young & Sons; three specimens, three colors, Wm. Schray; four plants, four varieties, A. Meyer; Sec. 20, Wm. Schray; two white, two yellow, Sec. 21, Wm. Schray; Sec. 22, Wm. Schray.

GROWN AS STANDARDS.

Best white, F. J. Fillmore; best yellow, F. J. Fillmore; best pink, Wm. Schray; any other color, Wm. Schray; best three, white, yellow and pink, Wm. Schray; three, any color, Wm. Schray.

Grown to one bloom, not over 5-inch pot: Best fifty, A. Meyer; twenty-five white, C. C. Sanders; twenty-five pink, C. Beyer; twenty-five yellow, A. Meyer; twenty-four any varieties, Young & Sons; fifty assorted colors, Wm. Schray; twenty-four, Sec. 7, C. C. Sanders; Sec. 8, Wm. Schray; best twenty-four, Young & Sons.

Plants in groups: To cover fifty square feet, C. Beyer; to cover 100 feet, Sec. 2, Wm. Schray; Sec. 3, C. Beyer; to cover twenty-five feet, G. B. Windler.

SHAW PREMIUMS.

For largest and best collection of named plants, Wm. Schray; best collection named begonias, Michel Plant and Bulb Co.; best collection named ferns, same; best collection named foliage plants with variegated foliage, same; twenty-five blooming plants for house decoration, Wm. Schray; twelve varieties named geraniums in bloom, Young & Sons; most tasteful fernery, Wm. Schray; best climbing plants, Young & Sons; best two Asparagus Sprengerii, W. E. Jordan; best two hanging baskets, C. Beyer; best specimen auracaria, Wm Schray; Areca lutescens, C. Beyer; Kentia Belmoreana, Wm. Schray; Kentia Forsteriana, Wm. Schray; Livistona Chinensis, C. Beyer; Pandanus utilis, C. Beyer; best decorative plant other than above, Wm. Schray.

MISCELLANEOUS.

Best fifty Wm. Scott carnations, W. J. & M. S. Vesey first; J. W Dunford, second; H. S. Ude, third.

C. Young & Sons won a prize of $50 for a design showing the trade mark of the Wabash railroad.

Best twenty-five carnation plants in bloom, F. J. Fillmore, first; J. W. Dunford, second.

C. Beyer captured every one of the eight premiums offered for palms, aggregating $90.

Visitors: H. Weber, Oakland, Md.; Mrs. B. W. Vesey and Mrs. W. J. Vesey, Fort Wayne, Ind.; A. F. J. Baur, Erie, Pa.; C. Cropp, Chicago. R. F. T.



ORCHID DISPLAY OF E. G. UIHLEIN AT THE CHICAGO SHOW.

Montreal.

The annual chrysanthemum show of the Montreal Gardeners' and Florists' Club opened November 8. The exhibits, though fewer in number than last year, were fully up to any former year in quality. There were only two entries of twelve blooms in competition for the Lord Strathcona Cup, and two entries of six specimen plants for the other cup from the same donor. The want of better competition in these two sections was very disappointing to the management as in former years there have been from three to five entries in these sections while twenty-four blooms and twelve plants, respectively, have been called for. The cause for the falling off can only be charged to the fact that the standard of quality fixed by the cup winners of the past few years has been so high that only a few are willing to give them the required attention for the small prizes offered for second and third places.

The large number of splendid palms, tree ferns and other decorative plants went a good way toward making up for the lack of chrysanthemum plants.

The exhibits of roses, carnations and made up work were all behind former years in quantity, but in quality certainly very fine.

W. J. Wilshire, gardener to R. B. Angus, came first for the twelve specimen blooms, with Thos. McHugh second. Mr. Wilshire's blooms were Mrs. H. Weeks, Barrington, Col. Smith, Inter Ocean, Golden Wedding, Mrs. Henry Robinson, Harry Hurrell, Mme. Carnot, Mrs. G. H. Morgan, M. Ed. Andre, Viviand-Morel and Vicomte Chezelle. The bloom Mme. Carnot was the largest in the show, measuring about nine inches through and about twenty-six inches in circumference. Mr. McHugh won first for six blooms of the following: Chitto, Modesto, Mayflower, Ed. Andre, Viviand-Morel and Mrs. Weeks. Also for three best white with Mrs. Weeks. The first place for six plants was taken by G. Pascol, gardener to Robt. Reford, with Georgiana Pitcher, Pink Ivory, Lincoln, Shrimpton, Ivory and Mrs. Henry Robinson; Chas. Smith, gardener to T. A. Dawes, second with Mrs. Perrin, Whilldin, G. W. Childs, Ivory, Viviand-Morel and Yellow Queen.

BEAVER.

Germantown, Pa.

The annual chrysanthemum show of the Germantown Horticultural Society was held on Monday, November 7, at Association Hall. To awaken interest in the society, it was determined to make it entirely free to visitors, and the doors were open during the afternoon and evening. The liberality of the society was

evidently much appreciated, the hall being crowded the greater part of the time. The exhibits and decorative plants were well arranged, making an artistic whole, thanks to the able secretary, George Redles, and to his committees.

The awarding committees reported as follows:

Chrysanthemums. — Specimen plant, first premium for white, yellow, red and any other color to Matthew Brachen, gardener to H. L. Townsend. The same exhibitor secured first premium for three plants in pots, the second going to Henry Dougherty, gardener to Stephen Greene. For twenty-five cut blooms, in variety, the first premium was secured by John F. Sibson, gardener to Mrs. Thos. McKean; also the first for six blooms, white, the second in both cases going to Albert Woltemate. For six yellow blooms, J. Wisher for a collection of vegetables.

Special mention was made of a fine collection of foliage plants from William Wilkie, gardener to R. S. Mason; a white seedling carnation, Mme. March, from Charles Leisley; a grafted chrysanthemum from Matthew Bracken; Mrs. Harrington, vase of cut chrysanthemums and a Pandanus Veitchii; collection chrysanthemums from Matthew Brachen; decorative plants, Albert Woltemate; Saint Paulia ionanthe, from Michael Punch; and vase cut chrysanthemums, twenty-five blooms, D. Cliffe.

While the huge plants which make such a striking show at many of the larger exhibitions were not visible here, the plants were mostly good. Too much staking was to be seen, as it usually is, and this detracted from the beauty of plants. Another defect in this show, as specimen chrysanthemum plants, of which there were none.

In the classes for eighteen American Beauties and for twelve, Henry Hentz, Madison, was first. In the latter M. Tilden was second.

There were eight competitors in the class for eighteen Bridesmaids, P. Connolly winning first, Henry Hentz second, and W. Charlton third.

There were nine exhibitors of Brides, F. V. Burnett securing first, P. Connolly second and N. Charlton third.

For six yellow cut chrysanthemums George Bird, of Morristown, was first and H. L. Hand, gardener to G. E. Kissell, second. On whites Mr. Hand was first with Evangeline, and Mr. Tilden second with Mrs. Henry Robinson. In pinks Mr. Hand was first with Good Gracious, and Mr. Tilden second. Mr.



AWARDED THE AMERICAN FLORIST AT THE INTERNATIONAL EXPOSITION, BRUSSELS, BELGIUM.

Albert Waltemate was first and John Sibson second. This was reversed for six pink, John Sibson being first and A. Woltemate second. The latter secured first for six red.

First premium for six ferns went to F. Smith, gardener to Miss Nixon; second to Henry Diehl, gardener to Miss Steele, who was also awarded first premium for twelve crotons.

For twelve American Beauty roses first went to John Welsh Young, as did the prize for twenty-five assorted roses.

The first premium for twenty-five white carnation blooms went to Charles Leisey, gardener to Mr. Van Schaick.

Joseph Kift & Son's premium for twenty-five chrysanthemums, in variety, arranged for effect, went to Albert Woltemate. Miss M. M. Nixon's prize for best specimen of the new chrysanthemum, Martin Nixon, was awarded to John McGowan, gardener to William Bayard; second to Matthew Brachen. For six cut blooms of the same, first went to Frank Smith, second to John McGowan.

A something which the schedule termed a "Consolation Prize," which was for ten chrysanthemums in 6-inch pots, was awarded to John McGowan; second to Albert Woltemate.

Special premiums were awarded to Michael Punch, gardener to R. Le Boutelier for a rare and odd collection of ferns and to P. McGowan, gardener to Chas. it is in nearly all shows, was the great disregard for the labeling of plants and flowers. Many of the prize exhibits had no name, nullifying one of the main objects of the exhibits, viz., to instruct visitors as to the best kinds to grow.

The twenty-five cut blooms of chrysanthemums from John F. Sibson were arranged in pleasing contrast to this, each flower being named. Such good kinds as these were among them: Oakland, Louise D. Blanc, Mayflower, Mrs. Geo. West, Golden Gate, Lenawee, Mrs. Geo. M. Pullman, Mrs. Perrin, West Newton, Philadelphia, Catharine North, Pennsylvania, Frank Thomson, The Queen, Viviand-Morel, Mrs. W. C. Egan. The new one spoken of, Martin Nixon, as it appeared in the hall, was a light bronze, fading to a still lighter color when well expanded. The three chrysanthemums which took first premium for three were Geo. W. Childs, Yellow Queen and Frank Hardy. John H. Sibson's six yellow cut blooms, were Sunderbruch; his six white, Mrs. H. McK. Twombley.

JOSEPH MEEHAN.

Morristown, N. J.

The date of the show, November 1 and 2, was very early, and in number the chrysanthemums were not quite equal to last year, but in quality they were much superior. The roses were particularly excellent. The only deficiency was in Tilden was first on vase of twelve varieties.

A. Herrington, gardener to H. McK. Twombley, exhibited, but not for competition, eight varieties, six each of Major Bonnaffon, Mrs. Henry Robinson, Viviand-Morel, Mrs. Weeks, Jeannie Falconer, Solar Queen, Mutual Friend and Wm. Seward, for which a certificate of merit was given.

John N. May exhibited a collection of six large varieties, forty-eight pompons and a table of roses. Certificates of merit were awarded to the pompons, to his new seedling, Meta, and his new pink carnation, Melba.

For vase of fifty carnations N. Butterback, gardener to C. N. Bliss, was first.

Lager & Hurrell exhibited orchids, Oncidium varicosum and Cattleya labiata, which won first prize.

In violets for table decoration D. H. Burnett, Whippany, N. J., was first and John Jones, Convent Station, second.

For 100 best double violets Mr. Burnett was first, Mr. Jones second and R. McMullen, gardener to Mrs. G. H. Stone, third. For 100 single violets Mr. McMullen was first.

Honorable mention was accorded an exhibit of the Bon Silene rose by Mr. Tilden and to a display of mixed roses by Mrs. A. R. Whitney.

Competion was close upon groups of foliage plants arranged to occupy spaces of fifty square feet. First prize went to

J. Dickson, gardener to Mrs. J. Catlin; second to H. C. Holmes and third to R. A. Elliott.

For a group of chrysanthemums and foliage plants covering fifty square feet first was won by J. Davis, gardener to Mrs. A. R. Whitney, and second by John Jones. A group in this class, but not for competition, exhibited by Wm. Duckham, gardener to D. W. James, was given a certificate of merit. The same exhibitor showed a splendid specimen of Dracæna Sanderiana with twenty-eight stems averaging four and one-half feet high and twenty strong young shoots.

Mrs. L. F. Sturgis won first for a specimen of Kentia Belmoreana. A certificate of merit was awarded to Julius Roehrs for Acalypha Sanderi.

Ellwanger & Barry made a fine display of pears and apples, for which a certificate was given.

Mrs. A. R. Whitney was first on collection of vegetables, Mrs. Geo. F. Stone second and John Jones third. D. Willis James was given a certificate of merit for a collection of fruit.

Indianapolis.

The twelfth annual chrysanthemum exhibition was opened November 8 at Tomlinson Hall under the auspices of the State Florist Association of Indiana. Mayor Taggart delivered an address of welcome. He said in part that he hoped the people of Indianapolis and the state would appreciate the grand display of flowers brought here by the florists, which excels anything seen here before. Pres. J. D. Carmody, of Evansville, responded in his usual happy way.

As usual Tomlinson Hall presented a beautiful appearance. The decoration around the balcony was a departure and was certainly very beautiful. It consisted of southern smilax, hung gracefully, intermixed with long streaming Florida moss. The arrangement and grouping of plants was ackowledged to be more artistic than in former years. Two large groups of palms formed a good background for the single stemmed chrysanthemums. Roses and carnations were not shown in as large quantities as heretofore, but those that were exhibited were of exceptional quality, especially the carnations. The Triumphs shown by the South Park Floral Co., New Castle, were by far the finest ever seen here, and the Flora Hill and Jubilee shown by W. W. Coles were also extra fine for November.

In roses the largest entries were in Brides, Bridesmaids and Kaiserins. The Brides and Bridesmaids of the South Park Floral Co. were particularly fine. Kaiserins were good in all five entries but those shown by W. W. Coles were without question the finest ever exhibited here and were an easy winner, making six consecutive years that Mr. Coles has carried off first premiums for Kaiserins. American Beauties were not quite up to the average, but the Meteors shown by Henry Reiman were ahead of the usual first premium flowers.

Single stemmed chrysanthemums were much finer and better done than at any previous exhibition. Those shown by Crabb & Hunter, of Grand Rapids, Mich., were a sight long to be remembered. Their fifty Mrs. Henry Robinson were all less than two feet high and did not vary over two inches. Their Major Bonnaffon were equally well grown. The bush forms grown by the Berterman Floral Co. and Henry Reiman were excellent specimens. The cut flowers were hardly as good as last year. Many of the blooms would have been better one week later. This was very noticeable in the Bonnaffons and Viviand-Morels. The Queen, which has been prominent here for the past five years, was not seen in any of the large entries, but there is nothing in white that can compare with twenty-five Queens as usually shown here. Unfortunately the Queen is a poor shipper and is dropped on this account. Mrs. Henry Robinson seemed to be the leading white this year, both in cut blooms and single stems. John Heidenreich exhibited two grand specimen plants of A. H. Fewkes, a variety well adapted to pot culture.

Two very pretty groups of decorative plants were arranged in the center of the hall by the Berterman Floral Co. and Henry Reiman. The former exhibit, particularly, received many flattering comments. Two groups of ferns were also very attractive and some well grown specimens were noticed in both lots. Two beautiful mantle decorations added to the attractiveness of the hall. Our old friend Theo. Bock, of Hamilton, Ohio, was judge and gave excellent satisfaction.

Stuart & Haugh, Anderson; Nathan Smith & Son, Adrian, Mich.; E. G. Hill & Co., Richmond; W. A. Chalfant, Springfield, Mo.; F. Dorner & Son, La Fayette; M. A. Hunt Floral Co., Terre Haute; Crabb & Hunter, Grand Rapids, Mich., and E. Huckride & Son were other large exhibitors who participated in the distribution of the prizes. W. W. C.

New Bedford, Mass.

The chrysanthemum show this year was something more than a chrysanthemum show for it comprised a fine variety of exhibits which made a much more effective picture than would be possible with chrysanthemums exclusively. Effective advertising and the high merit of the show as a whole sufficed to awaken the public interest and the attendance was better than on previous occasions. A. H. Fewkes, of Boston, served as judge.

William Keith was first on group of chrysanthemum plants, one Chinese variety, one red, six distinct varieties of bush plants for which the prize was a silver cup, on four single flowered Japanese plants, on six foliage plants, six exotic ferns, specimen stove plant, specimen exotic fern, banana in fruit and specimen lycopodium.

James Garthly won first place with three Japanese bush plants, one yellow, one pink and one white, one standard, twelve varieties one flower each, vase of yellow, basket of flowers, specimen palm and ficus.

John Allen was first on vase of pink and twelve cut Japanese varieties.

Samuel S. Peckham was first on six Japanese varieties, one specimen, six of one variety, six pots of carnations and best booth display.

John W. Frazier captured two firsts and several seconds. Michael McCarthy was first for three Japanese varieties, one bloom to a plant. C. H. Waite was first for cacti, cycas and tree palms. Peter Priaul won on violets and A. J, Fish for begonias. Jahn Brothers were first on ferns and booth display of palms and ferns. Seventy diplomas and certificates of merit were awarded.

Among the visitors were Robert Laurie and John Allen, Newport; C. J. Wood, Beach Bluff, Mass.; James Farquhar and T. J. Grey, Boston, and Samuel Burns, New York.

Poughkeepsie, N. Y.

The annual fall show was held under most favorable auspices and the special features of the entertainment, including vocal solos by Mrs. P. B. Cusac, added much to the interest. The patronesses served tea each afternoon and evening. The receipts were $404.

Considering the early date the displays were very good. The first premium for six plants of chrysanthemums, six blooms to a plant, was won by Archibald Rogers, gardener to Samuel Horn, as was the prize for best group occupying twenty-five square feet and for the best group of decorative plants. In the latter class second was won by Isaac Fricker. First for plants grown to single stem and



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bloom went to Wm. Russell, gardener to Chas. Dieterich, Millbrook, N. Y.

The first premium for twelve cut blooms, white, went to Alex. McKenzie, Nyack, N. Y., on Mrs. Henry Robinson. Mr. Russell took first for twelve blooms, yellow; twenty-four blooms yellow; six blooms yellow, and twenty white blooms arranged for effect.

The silver cup offered for 250 violets was won by Benj. Willig. J. G. Bahret was first on 100 violets. On mushrooms Wm. Milner, Newburgh was first. W. G. Gomersall, gardener to Mrs. Winthrop Sargent, was first on twenty-four varieties chrysanthemums, three varieties of pink, six of each, and twenty-five white chrysanthemums, for lunch table decoration and for English cucumbers.

The special prize for fifty carnations was won by Wm. Russell with Mrs. Bradt. A certificate of merit was awarded John N. May for his new seedling Meta and a certificate was also given for Acalypha Sanderi.

The judges were A. Herrington, S. Golding, W. Anderson and N. Duethan.

New Jersey Floricultural Society.

There were some very good displays at the impromptu exhibition given at the club rooms November 7, at which Prof. Byron D. Halsted gave a lecture.

Certificates of merit were awarded to Thos. Wiley, gardener to H. T. Ambrose, for seven vases of chrysanthemums; to Dr. J. M. W. Kitchen for a collection of sixteen orchids; to John Hayes, gardener to O. D. Munn, for crotons; to Peter Duff, gardener to J. C. Brown, for a splendid specimen of Nephrolepis davallioides furcans, vase of carnations and for chrysanthemums in 6-inch pots; to John Smith, gardener to S. M. Colgate, for Marie Louise violets; to Malcolm McRorie for foliage plants; to W. A. Manda for new and rare plants; to George Van Qualon, gardener to T. C. Barr, for adiantum; to Robert McInnis, gardener to B. O. Chisolm, for Rex begonias; to David Rose, for vases of pompons; to John N. May for a collection of eighteen varieties of chrysanthemums, including several of his new ones, and for a new pink carnation.

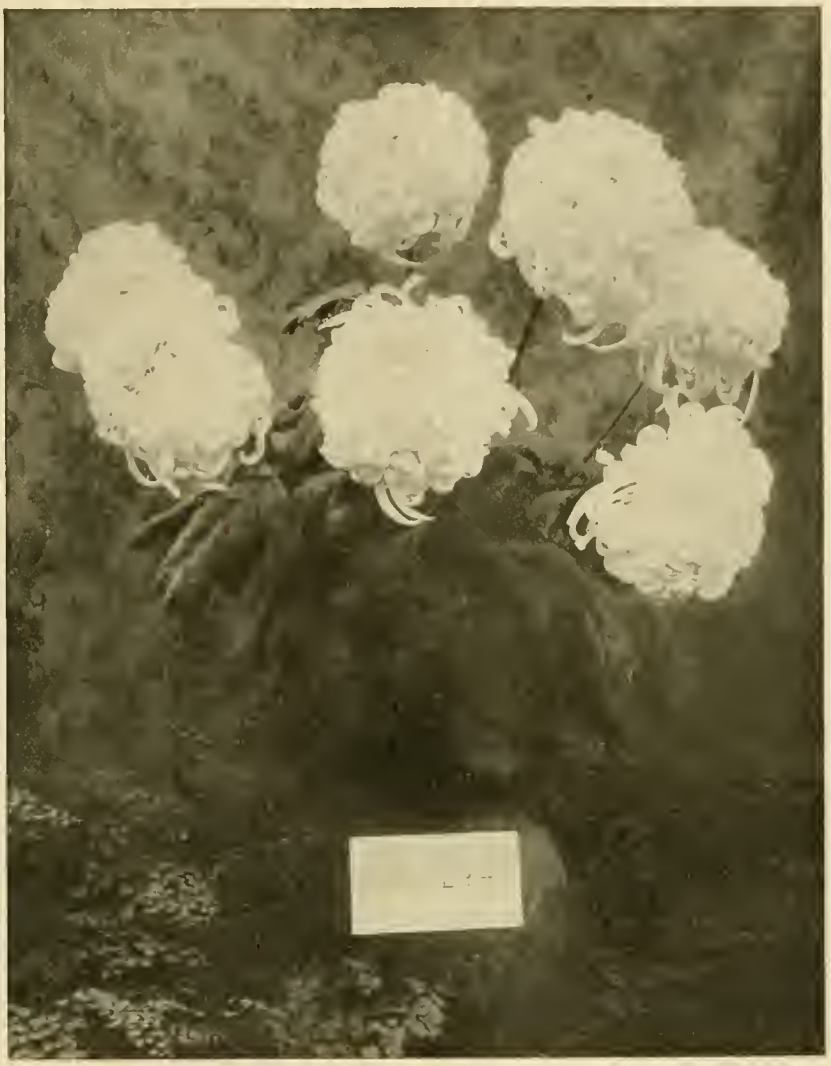
Evansville, Ind.

One of the best advertised and most successful chrysanthemum shows of the year was that of the Evansville Press Club held November 8–12. Evans hall was handsomely decorated and filled with a profusion of exhibits. In the section open to florists Julius Niednagel captured seven firsts and one second. J. C Ellsperman won one first, three seconds and four thirds. Carl Zeidler secured four seconds and four thirds and Wm. Blackman won prizes in seven classes.

CHRYSANTHEMUMS.

CHRYSANTHEMUM MRS. FRED. L. BUTTON.

Attention has recently been called to this variety on account of its earliness. The variety is a Japanese importation, Mr. J. A. Carbone, of West Berkeley, Cal., having had it in cultivation since 1896. The flowers are pure white and said to be as large as Modesto; they are at their best September 15; foliage good; stem strong and stiff.



CHRYSANTHEMUM MRS. FRED L. BUTTON.

WORK OF THE COMMITTEES.

NEW YORK.—Wm. Anderson, Mamaroneck, N. Y., exhibited Mrs. F. A. Constable, Japanese, pure white; scored commercial scale 91, exhibition scale 95 points. F. R. Pierson & Co., Tarrytown, N. Y., exhibited G. J. Warren, Japanese, canary yellow; scored commercial scale 78, exhibition scale 85 points.

PHILADELPHIA.—Jno. N. May, Summit, N. J., exhibited Mrs. Trainor L. Park, Japanese, incurved, yellow; scored commercial scale 91, exhibition 90 points. Same grower exhibited Mrs. N. Molyneaux, Japanese, white; scored commercial scale 90 points. Also Yellow Mayflower, Japanese, light yellow; scored both scales 88 points. Mavourneen by the same grower, Japanese, pink, scored commercial scale 85, exhibition scale 33 points. H. B. Surman, Germantown, Pa., exhibited Mrs. J. V. Merrick; Japanese, pink; scored commercial scale 82 points.

CHICAGO.—Jno. N. May exhibited Meta, incurved, Japanese, white; scored commercial scale 85 points. Yellow Mayflower by the same grower, reflexed Japanese, light yellow; scored commercial scale 84 points. He also exhibited Mrs. Trainor L. Park, incurved Japanese, yellow; scored commercial scale 89 points. Nathan Smith & Son, Adrian, Mich., exhibited No. 35–4, incurved Japanese, pink; scored commercial scale 82 points. Shilowa by the same growers, reflexed Japanese, crimson; scored commercial scale 86 points. G. P. Rawson, Elmira, N. Y., exhibited without name or number a reflexed Japanese, white, which scored commercial scale 81 points. Smith & Son, Cleveland, O., exhibited Yellow Ivory, incurved Japanese, yellow; scored commercial scale 73 points.

CINCINNATI, O.—Nathan Smith & Son exhibited No. 35–6, Japanese, blush pink; scored commercial scale 81, exhibition scale 80 points. ELMER D. SMITH.

GANE MEMORIAL FUND.

Mrs. Jerome Jones has established a fund to be known as the Henry A. Gane Memorial Fund the income from which is to be devoted to premiums for chrysanthemums at the exhibitions of the Massachusetts Horticultural Society. The late Mr. Gane, who was Mrs. Jones' father, gave much of his time to hybridizing and improving the chrysanthemum and his efforts in that direction were rewarded by the production of some of the finest varieties extant. Among the most notable varieties originated by Mr. Gane were Mrs. Jerome Jones, Mrs. Henry A. Gane, (Anem.) Marcia Jones, (Anem.) Golden Ball, West Newton, Mrs. Geo. A.

Gane and Bessie Jones. There are now being tested by Elijah A. Wood some thirty more seedlings raised by Mr. Gane, unnamed as yet, a number of which look very promising. The fund provides for the following prizes to be awarded annually for three years after which time the schedule may be rearranged:

For the best twelve specimen blooms of any of the chrysanthemums originated by the late Henry A. Gane, first prize $20, second, $10.

For the best twelve specimen plants or blooms of any chrysanthemums, not less than four varieties, originated by the late Henry A. Gane, first prize, $12, second $8.

Kneeling Stool for Weddings.

No house wedding is complete without this accessory. Placed in front of a group of plants at the end of the parlor it gives a finish to the whole decoration. The illustration shows a very neat design of willow painted with white enamel. There is a cream white satin cushion on the stool and also at the head rest. It may be seen at a glance how few flowers are required to make this presentable and there are many ways in which it can be decorated to suit the pocket of the customer. The design figured is forty-two inches long and thirty-four inches high. We have seen many frames to which ferns are attached for this purpose, some made by carpenters, some of wire, to be mossed up, and others, but all necessitating much work to complete and looking very unsightly before being decorated. The willow enameled stool is ornamental without the flowers and can be trimmed as shown in a very short time. K.

CARNATIONS.

CULTURAL NOTES.

November 12.—Stem rot affects many carnations at this season of the year, and is the one and only disease that has any terrors for a good grower. It apparently comes without cause and there is no known remedy for it. Perhaps I am not the person to write on this subject, as, with the exception of a few instances, I have never had any trouble with this disease. These few instances have, however, led me to make a few experiments.

The first conclusion arrived at was that the disease was a modified form of the cutting bench fungus, the spores of which were formed in the cutting bench and remained dormant until the conditions were favorable to their growth. This conclusion was arrived at by an experiment with a batch of McGowan cuttings, the second year of its introduction. This particular lot of cuttings was badly affected with cutting bench fungus, and being expensive, and greatly in demand, they were carefully potted up so as to save as many as possible of them. A few of them died in the pots, and more in the field, while after they were planted in the house fully one-half of them were killed by stem rot. I do not recall losing a single plant by this disease among the twenty odd thousand planted that season except in this one lot. My conclusion has been strengthened this season by the fact that a novelty which came to the place last spring badly affected with cutting bench fungus, has behaved in just the same way.

Among growers who crowd their cuttings into the bench so thickly that you can scarcely see the sand between them you will nearly always find a good percentage of stem rot. One particular instance of this I have in mind is where a grower puts into a cutting bench that I would consider about large enough for 5,000 cuttings just ten times that number, and always has a lot of stem rot to contend with. Where the disease is due to cutting bench fungus there is no remedy for it. In exceptional instances the cutting off of the diseased branches will save the balance of the plant, but it is usually only a matter of time until the whole plant dies, and it is far better to pull up all affected plants and give the others the benefit of the extra light and air.

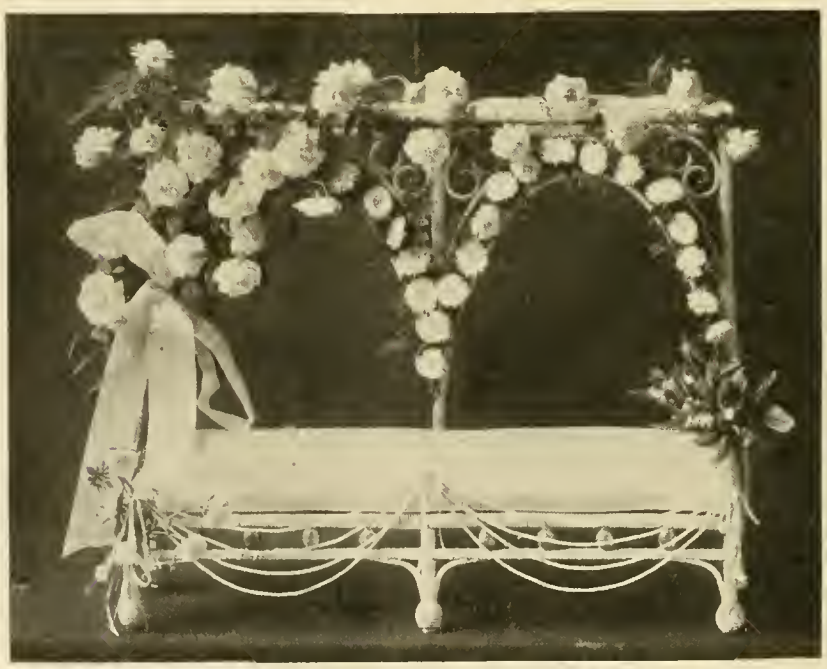
The prevention is very simple and consists in having cuttings that are entirely free from fungus. To make sure of this give the cuttings plenty of space in the bench so that when they are given light and air they can get it all around them. Deep planting is an acknowledged cause of stem rot, and one would naturally think, after all that has been written and said, that there would not be a grower in the country who would plant his carnations too deeply, and yet some of our apparently sane men will plant deeply and suffer the consequences year after year.

This deep planting often begins as soon as the cuttings leave the bench, it being a not unusual thing to find a potter or planter, who seems to think that the deeper he can get the cuttings into the ground, the better they will grow, while just the opposite is the case. In a favorable season the evil effects of deep planting in the field are not so noticeable as if it happens to be wet and cloudy for any length of time, when stem rot will start with a vengeance, especially in a soil that holds moisture. I am blessed with soil that it is almost impossible to water-clog and to this fact I attribute my freedom from this disease.

Carnations in the houses should be planted with the stem of the plant almost altogether above ground, yet it is not at all unusual to find a house of carnations planted so deeply that the lower leaves and branches are down to the top of the soil, and in many instances with the soil even among the lower branches. Such planting may result all right, but the probabilities are that a large proportion of the plants will die with stem rot before the season is over.

Where deep planting has been done the effects of it can be overcome by taking enough soil off the bench to allow the larger portion of the stalk of the plant to be above ground. In taking the soil off it would be as well to remove it over the whole of the bench or bed, as the mere taking it away from the base of the plant would form a hollow around it in which the water would collect and thus make matters rather worse than better. It might be brought as an objection against this sort of treatment that you would injure the little fibrous roots around the top of the soil, but it will be far better to loose a few roots than to lose the whole plant with stem rot. In addition to taking the soil off the benches it would be well to give the bench a light sprinkling of lime, which has a tendency to sweeten the soil and to develop root action.

ALBERT M. HERR.



KNEELING STOOL FOR WEDDING.

SEEDLING CARNATIONS.

George Hollis, of Bracondale, Ont., Canada, spoke as follows at the recent meeting at Toronto of the Canadian Horticultural Society:

I do not think that I can say much about carnations which would be new, although I have raised seedlings for many years and have obtained all colors from a dirty black to one very near blue. I would advise every one to grow a few seedlings; for a small place, say 100 each year. Sow the seeds early in February; keep them near the glass; work them along in pots or flats until May when they may be transferred to the open ground. Do not pinch them back but let them run to bloom; the first to flower are generally the most prolific. I need not tell you to pull up the single flowered plants, but also the very double ones, as nine times out of ten they will come worse inside the greenhouse.



A VIEW OF THE PHILADELPHIA CHRYSANTHEMUM SHOW.

After raising the first batch of seedlings select the seed-bearing plants for the next year. They should be sturdy, with stiff flower stems not less than from fifteen inches to two feet long, bearing erect not too double flowers. Cross a pink with a pink and white with white. I have tried violent crosses but do not recommend them. All crosses should be recorded. Work among your seedlings and do not revert to the old varieties if you can avoid it. Many growers will secure a seedling of a fine color but otherwise no good and from this will raise a lot of plants, usually getting nothing but weak stems and frequently not one of the color used and desired. I have done this myself, but not lately. Never mind the color; what you want is strength and form. Selection is the thing which wins.

The carnation is in many places a hard worked plant. Life is short with many new varieties, fed highly to produce blooms to win a certificate, pumped hard for cuttings, and then the buyer runs it to beat some other grower, so that what might be a good thing is often thrown out with many a curse for the raiser. I would advise you not to stimulate too much such plants as you wish to take cuttings from. After cuttings are removed, if an increase of food will make them produce more bloom, why, let them have it.

Summer planting of carnations was tried by many this year and in most cases the plants are doing well. For this the houses should he well ventilated and to accomplish this it is often necessary to remove every sixth row of glass. The new varieties have this year nearly all made very large plants, showing more care in propagation. It is a good sign. The varieties of to-day are far ahead of those of ten years ago, and the American Carnation Society is certainly to be given much credit for the work it has done in stimulating seedling raising and in setting the standards higher.

THE STEM-ROT DISEASE.

For many years carnation growers have been familiar with a disease that attacked their plants, causing the tips to wilt gradually, turn yellow, and finally become dead and dry. An examination would show that the stem and roots were partially decayed, or at least appeared to he dead, and were often in a dried or withered condition. This trouble appears both in the field and in the house after the plants have been set in the benches. It has been known to growers under various names, such as stem-rot and die-back, but its cause was more or less obscure until Dr. W. C. Sturgis, of the Connecticut Experiment Station, who investigated the matter in 1897, found it to be due to a fungus belonging to the genus fusarium. The stem of the plant is filled with the mycelium, or vegetative threads of the fungus, to such an extent that the ducts or passages are partially or wholly closed to the sap, thus choking the plant and causing a gradual wilting. The spores or fruit of the fungus are somewhat difficult to find but occasionally they may be seen on the stems of dead or diseased plants, in the form of a pinkish mold. A fuller account of the fungus was published in the Report of the Connecticut Agricultural Experiment Station for 1897, Part III, p. 175. Dr. E. F. Smith has also investigated a similar disease of melons and ascribed the cause to a choking of the ducts by the mycelium of a fungus of the same genus.

Just how the plants become infected has not been determined, but attempts to inoculate healthy plants above ground failed. It seems probable that the spores live over winter in the soil and thus gain access to the plant. Propagating from diseased plants is another means of spreading the disease. Here at the station, cuttings taken from apparently healthy plants and set in ground where carnations were never before grown, showed symptoms of the trouble within a few weeks, and later, died. When lifting the plants to set in the house only the apparently healthy ones were taken. After setting, the stems were laid bare and painted with Bordeaux mixture. After the Bordeaux mixture had become dry the earth was replaced. It was thought that this treatment might in a measure prevent the fungus from gaining access to the stems of the plants. One or two plants out of two hundred, on October 19, show signs of being affected. The plants were set September 19, and of course may have been attacked before setting though they did not then show it. It is apparently a difficult disease to

control, and the most that can now be recommended is to destroy all diseased plants, propagate only from healthy ones and use fresh soil both in the house and field.

In the fall of 1897, a row of snapdragon plants, antirrhinum, growing in the field near the carnations appeared to be affected in a similar manner. After repeated trials the same characteristic pink mold was obtained on the stems, and under the microscope the spores appeared to be identical with those from the carnation. The present season, asters sent to the station presented the same symptoms. Stems were placed in a moist chamber and soon exhibited the looked for appearance, being covered with spore masses of a salmon pink color. That the same fungus attacks these three plants, which are not very closely related, is probable though not yet fully established. W. E. BRITTON.

Geraniums in Autumn and Winter.

There are among the geraniums some beautiful colors and forms which should be well adapted for market plants if properly grown. This is especially true of some of the new semi-double varieties for there is nothing that makes a finer show than a well bloomed geranium plant. The most important point in developing well foliaged plants with good



DWARF GERANIUM GROWN BY C. W. JOHNSON.

trusses of bloom is to provide a light and airy place. In watering moisten only those which absolutely require it and do not let the atmosphere of the house be at all damp.

Presuming that you now have the young stock in thumb pots, shift them into a size larger. They will very soon send their roots to the sides of these pots and should then be potted on as often as they require it till they reach a salable size, which should be by the time they are well in bloom, in a 6-inch pot. Never allow the plants to become drawn or they will be ruined for market purposes. An even temperature of about 50° to 54° at night suits them to perfection. They thrive in a nice open soil, not too heavily charged with manure. The semi-doubles hold their petals much better than do the single ones and are therefore much better to use, although the single pink, Mrs. E. G. Hill, will make as nice a plant as any one could wish for.

If you can make use of some standard geraniums now is the time to start them for next season. When well done they make striking decorative plants and there is nothing better to attract attention at the fall shows than a group of well grown standard geraniums of different colors. They should be caused to run up to one stem until the required height is obtained. This is done by picking off the side shoots, allowing the foliage on the main stem to stay till the head is formed, when it can be removed. They should at no time be overwatered, particularly during a very hot spell. A little weak stimulant is beneficial when the buds are allowed to mature, which should be about six weeks before the plants are wanted for use. Previous to this the plants should be kept free from buds.

The best varieties for standards are as follows: Heteranthe, scarlet; Le Cid, crimson; Mme. Aime Le Chevraliere, white. C. W. JOHNSON.

Winter Protection for Herbaceous Plants.

Among our so-called perennials or border plants, we have only a few which cannot be safely left without protection of some sort. In many parts of the country some of them might winter through unharmed year after year, without any other protection than a few inches of snow but subsequently an open and comparatively mild winter with frequent and alternate thawing and freezing would destroy them. I do not say that all the herbaceous plants require protection or are better off for being protected. On the contrary, it is often the case that such plants are actually injured even by a thin covering; nearly all evergreen species, especially the dense and compact growers, want a free circulation of air all around them at all times, even while apparently dormant. Moisture among the foliage will invariably cause decay in time and a part of the plant at least will be lost. I have seen a splendid densely clothed patch of aubretias destroyed by too much kindness in this way. The bed had been covered with leaves on a cold November day and when these were removed early in April, the green carpet which we expected to find, was gone. It took two years of growth to replace the dense carpet in that bed and we never covered it again. The evergreen Alyssum argenteum and A. rostratum would act precisely in the same manner; so would the dwarf erysimums, arabises, some of the silenes and arenarias; most of the dianthuses, armerias, drabas, erinuses and others of like habit.

We should never use any material as a covering which will pack down close and exclude the air; light long stuff, put over and between the plants, seldom does any serious harm if it is scattered thinly and evenly. It is not the cold from which we want protection, for it is alternate thawing and freezing which does the mischief and by keeping the ground shaded we lessen the danger in this direction; the winter sun is not powerful enough to warm up the earth beneath a screen of evergreen boughs, straw or leaves and the ground remains frozen hard all day. There is another class of plants, which are not harmed by covering deeply with more solid material—those which annually die down entirely and form their new crowns underground. For instance, we may safely pile six or more inches of old manure onto a patch of Japanese anemones, and they will come out all right in spring. With us it is not necessary to protect anemones in any way, but in other sections they are sometimes badly winter-killed, especially the younger stock, which has not had time to send its roots deep into the earth. I may say here, too, that I always favored rather deep planting for these when laying out a new bed of them; with six inches of soil above the crowns they withstand any climate.

What I have said so far only demonstrates that a thorough knowledge of the peculiarities in growth and habit of the various perennial plants is indispensable in the man who is sent out to do the work of covering for the winter. Things which are a little tender, such as Cedronella cana, Salvia farinacea, S. ringens, Hedysarum coronarium, Pentstemon Murrayanus and a few others should be protected against excessive moisture rather than against the cold. Generally speaking, I never advocate the covering of the herbaceous borders, excepting where plants were set out in the fall and had not become fairly established before winter come on. In such a case we must not neglect to cover the ground in some manner, but a thin layer of long litter or, better still, evergreen boughs, laid over the rows is a sufficient protection to the young plants in all positions.

In very moist places many of the shallow rooting plants, even when well established, are liable to lift themselves out of the ground and of course are then injured more or less by the drying winds and the action of the sun upon the stiffly frozen exposed roots. Where the soil is of such a nature we have no alternative and are obliged annually to protect carefully against the rays of the sun; especially should we be on our guard on mild days in February and March.



STANDARD GERANIUM GROWN BY C. W. JOHNSON.



HERBACEOUS GROUND, LOOKING NORTH, IN THE NEW YORK BOTANIC GARDEN.

Earlier in the winter there is but little danger, even if the weather should be severe, as cold does not hurt our hardy plants, for, as I have often said, we do not pretend to keep them warm by such a covering; we merely try to keep the ground frozen continuously until winter is over.

The north side of a building or wall is exposed to the very coldest winds and still it is the best place for things of doubtful hardiness because there the sun does not reach them in midwinter and the ground generally remains frozen solidly until spring has really arrived. But all may not agree with my mode of looking at the subject. It has been a time honored custom with a great many practical men to protect all these plants in one way or another each winter. If some of the plants were found dead or partly decayed when the covering was removed in spring, they were simply pronounced winter-killed and no more was said or thought about it. To all these I would say, if you think you have to cover at all, do it lightly and discriminate between those plants which form an underground crown and those with the crowns above the surface. See whether you are covering a patch of plants with thick, soft, fleshy roots or a mass of hard, fibrous, matted roots; whether the foliage is in close tufts, forming a carpet, or whether it is large and leathery.

Evergreen boughs are superior to any other covering material, but if these are not procurable or too expensive, then the cheapest serviceable, though not exactly the tidiest, substitute will be found in the dead tops of the taller growing plants themselves. There are generally enough of these to be found on the place. By all means wait for the real cold weather before you cover any of your plants; December or even January is often early enough. Far more plants are killed by covering too early than by leaving them entirely unprotected. When the ground is frozen hard and likely to remain so, then it is time enough to perform the work, if you think best to follow the old practice. J. B. KELLER.

Rochester, N. Y.

New York Botanical Garden.

The first botanical garden established in America was begun by John Bartram in Philadelphia in 1728 and the plot still remains as a public ground. The principal gardens at present operated in the United States are the Botanical Garden of Harvard University, Cambridge, Mass., Arnold Arboretum, Jamaica Plain, Mass., National Botanical Gardens at Washington, D. C., Missouri Botanical Gardens, St. Louis, Mo., Buffalo Botanical Gardens and the Botanical Gardens of Michigan Agricultural College, University of California, University of Pennsylvania and Smith college.

The New York Botanical Garden which is now in course of development occupies about 250 acres of the northern part of Bronx Park. After several years of agitation inaugurated and influenced by the Torrey Botanical Club, the sum of $250,000 was, in June, 1895, raised by public subscription and the Board of Estimates and Appointments was authorized to issue bonds aggregating $500,000 for the construction and equipment, within the grounds, of the necessary buildings. Much has already been accomplished in grading, planting borders, establishing a nursery and accumulating herbarium, museum and library material. By an agreement with Columbia University the herbarium and botanical library of the University will be deposited with the garden. Reservations of suitable extent and location have been set apart for decorative grounds, forest areas, meadows, pinetum, deciduous arboretum, fruticetum, viticetum, herbaceous grounds, rockery, economic garden, bog garden and ponds. The range of horticultural buildings to be erected comprise thirteen houses, covering about 45,000 square feet. A circular palm house 100 feet in diameter and 90 feet in height is the central feature and the houses are so arranged as to enclose a large court that will be utilized for aquatic planting and other ornamental features. The houses occupy a commanding position upon a broad terrace.

The tract of land devoted to the garden is an ideal one for its uses. Its surface is

undulated and it includes all degrees of shade and of exposure to sunshine and moisture and a soil that is remarkably good throughout. The families of plants in the various departments will be arranged in a sequence following the latest system of botanical classification. The Bronx river, with its overhanging banks and damp glades, will furnish an appropriate home for the ferns and moisture loving plants, which cannot be located in formal beds, and will also add beauty to the landscape features. Our illustrations show, in the river views, some of the beautiful natural features of the locality and the view in the herbaceous grounds give some idea of how the classified planting is progressing. The chief work in the garden during the past summer has been on the border, which is to enclose it, making a thick plantation of trees and shrubs, sloping down from the outside and shutting out objectionable views where such exist. This border when completed will be about two miles long and comprises some 350 species or varieties of trees and shrubs.

The planting is under the direction of Superintendent Samuel Henshaw, who is a well equipped gardener of the old school and eminently fitted for the work before him. The permanent labels used in marking the plants are of zinc—the name and habitat of each plant being written on its label with chloride of platinum. In addition to these there are other larger labels of wood painted lead color with the name written quite large for the information of casual visitors. These latter are removed from the grounds in fall and returned again in spring.



FOUR LOTS OF GOLDEN BEDDER COLEUS WATERED WITH WATER AT TEMPERATURES INDICATED IN FOREGROUND.

Notes on Watering.

Before discussing further the subject of cold vs. warm water for plants, permit me to say that I do not in any sense advocate the use of ice water for greenhouse plants; nor do I wish to be understood as saying that ice water will not injure any plants. There may be many species that would be injured by the application of water at 32° Fahrenheit. I regret that I have not been able to make use of palms or orchids in this work, species that one would naturally expect would be injured by such treatment. I feel under obligations to Mr. Taplin for his fair-minded criticism as it has directed my attention to many points not clearly stated in my first article.

Definitely, the time occupied by the experiment was as follows: The cuttings were taken January 1 and the final measurements May 15, a period of 135 days. No exact record was made of the number of times the plants were watered, but my notes indicate that the average was six times a week. Both the boxes and the pots were provided with abundant drainage; the plants were never watered until quite dry, and were then thoroughly moistened and syringed, some of them, as previously noted, with water at only 3° above the freezing point. Now, it was not my imagination, but the truth, as demonstrated by the balance and rule, that these plants were not materially injured by this treatment. None of the plants dropped leaves nor suffered any apparent check during the experiment. It was as healthy and vigorous a batch of plants as one could wish for. There was, near the close of the experiment, an apparent difference in the height of the plants in the different lots in favor of the 50° and 86° lots, but when measured it was found to be a trifle less than eight-tenths of an inch in the average height of the plants in favor of the 50° lot, with the 86° lot a close second.

These were the results of but one trial and, as it is not usually advisable to draw conclusions from a single test, the experiment was repeated the following season with still more striking results. Golden Bedder coleus was selected as before and the cuttings and plants treated as in the first trial except that a different range of temperature was employed, viz., 32° to 35°, 40°, 70° and 100° Fahrenheit. For the first lot no water was used warmer than 35° and it was as much colder than that as it was possible to get it. The cuttings were taken January 12 and the experiment closed June 1, a period of 139 days. At the close the roots of the plants comfortably filled 6-inch pots. The plants were cut off at the surface of the earth and weighed with the following results:

32°.....373 grammes (13.3 ozs.)
40°.....325 grammes (11.6 ozs.)
70°.....377 grammes (13.4 ozs.)
100°.....371 grammes (13.2 ozs.)

In this case the plants of the 32° lot weighed more than those of any except the 70° lot but the weights vary so little that it is difficult to discover any difference that might be ascribed to the temperature of the water used. Photographs were taken at different stages of the experiment, one of which is here reproduced.

In addition to the above, several crops of vegetables were grown, including two crops of tomatoes, each crop occupying a solid bed 18x60; two crops of beans, a crop of radishes and a crop of lettuce, all watered as in the coleus experiments except for slight changes in the higher temperatures. Also during the past summer, a crop of tomatoes and a crop of beans and of radishes was grown outdoors. To a portion of each of these ice water was applied throughout the entire growth period with no disastrous results. In fact, in the first crop of greenhouse tomatoes the 32° lot produced a greater weight of fruit and of vines than the plants in the 70° lot.

I cannot give detailed results at this time because it is customary in experiment station work to first make public the results of experiments through the medium of the reports and bulletins of the station. The above mentioned work will form a part of our annual report which will be ready for distribution in a few weeks. A copy will be mailed free to any interested person who applies.

Investigators are supposed to approach their work with a mind free from prejudice, but this I believe rarely happens. In this case I admit that I confidently expected to see every plant die outright within a few days after being treated with ice water. The question asked in



BRONX RIVER, NEW YORK BOTANIC GARDEN.



MEADOWS IN THE NEW YORK BOTANIC GARDEN.

in the beginning was this: Will water at a temperature several degrees below that of the air in the greenhouse injure plants? In the light of my present experience I feel that I can answer that it will not injure any of the plants here named. I will ask Mr. Taplin to remember that I did not lower the temperature of the greenhouse to 35° at any time. Only the temperature of the water used in watering was lowered to that degree. Right here lies the main point, and one apt to be overlooked. The air, the pots and the soil in them, the sand in the benches and the leaves of the plants were all warm, so warm that three hours after being drenched with ice water the effects were not discernible with the aid of a most accurately graduated thermometer, and in most cases the soil regained its normal temperature, lacking a fraction of a degree, in less than one hour. The changes in temperature of soil in pots and on greenhouse benches due to alternations between sunshine and shade are greater, if not as violent, than the changes due to watering with warm or ice water.

I cannot dispute the statement made by Mr. Taplin that palms were injured by cold water; I can only doubt that the coldness of the water was the real cause of the injury. Were other plants available for comparison and watered with warm water? The question as to whether or not cold water will injure greenhouse plants is an important one and is not as yet fully answered. Many valuable facts may be gained by a close study of one or two dozen plants in an experiment station greenhouse but is will not be decided to the full satisfaction of florists in general until some progressive grower with one or two dozen houses summons sufficient courage to water at least one-half of the plants in each house with the coldest water obtainable and the remainder with warmer water. Will general disaster follow? I firmly believe it will not. It must be that there are men who have had experience in this line. Can they not be prevailed upon to give us the benefit of their experience?

FREDERIC CRANEFIELD.
Wisconsin Experiment Station.

Sweet Pea Troubles.

ED. AM. FLORIST:—Please give me some advice on the treatment of sweet peas. Mine were very fine until the middle of June; then with no apparent cause, having plenty of moisture and fertilizers, and careful cultivation, the thriftiest plants drooped and died. I found on examining them that ants had laid their eggs along the stems under ground and the young ants were feeding on the juices of the plants. After spraying them with whale oil soap and Bordeaux mixture the trouble ceased for a time, but still I lost many of my best plants, apparently from some other cause. My friends complain of the same thing, several having lost all of their sweet peas. C. D. W.

Your correspondent has plenty of good company, but the nest of ants he found nearby was only an exceptional circumstance, as are many other local troubles that are reported. Some observe aphis, some discover a grub that has eaten out the pith of the stalk and some report that they have found caterpillars. But these are all exceptional and do not account for the real trouble. "C. D. W." says: "I lose my best plants apparently from some other cause." That "some other cause" is just now the most serious problem our best sweet pea growers have on hand.

I do not know what state your questioner lives in, or what are his conditions of soil, but it matters not, for the trouble is very widely prevalent. We had it badly all through New England. At Cohocton, N. Y., where conditions are remarkably adapted to sweet peas and where they had some of the finest blossoms I ever saw and a very enthusiastic interest in them, they had to go through their vines and pull up those that yesterday were in full bloom, to-day are drooping and to-morrow are beyond recovery.

I take it your inquirer knows whether he had red spider or not. They don't "droop" with the red spider, although they rapidly go to straw. When a vine droops as if it had been cut off at the base there you have the trouble that is discouraging sweet pea growers to-day. Dig up such a vine and you find the fibrous part of the root gone. It bravely did all it could to carry the vine into its first bloom, but was completely exhausted in that effort. That is the simple story of hundreds of the best vines with all of us. Even if we did not have

the trouble in this acute form we had it in the shortening of our season of bloom. As far as my observation goes all our best growers are now getting not more than half the length of season of bloom we used to get, some not more than two weeks. With me the season of bloom begins at the middle of June and is at its best the second week of July. I thought myself fortunate this year to hold my vines in tolerably good bloom till the first week in August. I used to have thrifty vines up to frost and the blossoms attained fine size as the cool nights came back.

This trouble that your inquirer asks about is not, in my judgment, attributable any disease or insect. There is an early blight that many suffer from, in which sections of a row will die before they are six inches high. That is due to planting in soft ground that gets superheated, or to the trench method, which causes them either to damp off or suffocates the tender plants by filling in the earth around them. And this early blight is easily remedied by firming the soil both under the seed and above it. The other and more serious trouble acts like a root exhaustion. I have just dug up some of the greenest vines to examine the roots. A few years ago the vines were thrifty at this time of year, and when I pulled them up to be burned they would show a mass of fibrous roots. Now every root is destitute of these fresh rootlets and has an exhausted look. All the way along from the middle of June the roots give out, some having only vitality enough to give a little early bloom. We do not get the strong, healthy root action and growth that we used to.

By careful attention I had a fine season of bloom of about seven weeks and at show time in July tabled good displays. And still, even with close attention to their every need, I find now that the bloom comes in waves. They throw out their first crop of blossoms and then have to recuperate before they make another good crop of buds, and so on. Between the red spider and this root weakness they have to be helped and favored in every way. I miss the old vigor that held them steadily to their business and brought them still green and growing into the fall months. Even the vines grown in new soil I pulled up first this year. I have refrained from discussing this matter because it involves the whole subject of the modern sweet pea, taking in the whole range of the hybridizer's work and the seed grower. We are simply paying the price of the highly developed novelties that have been made for us. We have plighted our troth to these fair candidates and must take them "for better or for worse." The old staid habits of the flower have been changed. We must adjust ourselves kindly to this fact, but our seed growers will come to our relief if we will give them time. They are just now in the heyday of novelty work and it takes time for novelties to settle down to staid habits.

If our growers would settle on a good standard set of, say thirty varieties and grow the seed stock right up to a settled type year after year we would get the hardy habits of this flower back in ten years. We who grow our rows from this ever changing stock cannot expect anything different from what we are now experiencing. I keep in touch with the best amateur growers and we find it very perplexing now to carry our vines through any considerable period of bloom unless we are favored by a specially good season.

One thing is growing plainer every season; that we must change the location of our rows each year, or, if we cannot do that, we must thoroughly change the soil in the place where we want them. No amount of enriching or fussing will make a row do well now if sweet peas were grown there the year before. Change the location and see that the soil is deep and moderately rich. If it is heavy soil, let the ground be only slightly hollowed where you plant. If it is light soil hollow it out about three inches, and having firmed it, put the seed in one, two or three inches deep, according to the earliness or lateness of planting, and firm well above the seed. Cover only one inch if you plant in March in this latitude. If you do not get your seed in before the first of May cover it three inches. This simple direction of firming the soil is a great specific for blight. But you must be reasonable about this. Treading it down with the feet until it is comparatively firm, but not hard, is sufficient, and then finish it off neatly with a rake. We must not have a quick top growth for this flower. Early planting, slow germination, a month of May that hardens and holds them at a standstill, six weeks of cool root work before they begin to show a disposition to grow much above ground, the soil kept firm about the roots, with very light surface culture, no watering before they come into bud if you can help it, nothing to stimulate top growth before they begin to show bud, but plenty of good food and drink after that.

However, none of these directions touch the difficulty of your correspondent. Vines may be given the most approved culture, and still a percentage will droop and die just after apparently coming into a vigorous bloom. It is, I believe, a weakness of constitution. The seed that Mr. Eckford grows comes to us shriveled, but while our American seed is more plump it acts as if an unequal strength was imparted to it. The weaker ones carry the plant only barely into bloom. It is not reasonable to expect novelties and strong seed at the same time. And yet the American novelties show fine vigor at first. None of the stock we get now has the staying qualities. And this will continue to be so until our growers settle on such varieties as are good enough, and year after year put such work on them as will give them strong, settled habits.

It is not at all to the discredit of our seed growers that this is so, for it is a very patent law of nature that high development in the quality of a bloom can only be had at the expense of seed production, and the higher a flower is carried the less fortified it is against its foes. Here is the simple explanation of what we now have to contend with in growing the highly improved sweet pea. I am not disturbed by it, only I must be contented to see my sweet peas go by comparatively early in the season for the present. And I can as yet see no effectual remedy for the sudden drooping and dying of a percentage of our finest sorts. I can only think of one possible expedient which I have not tried—that of cutting the vines back before they bloom and giving them two weeks more of root development. Of course by late planting, if we have a cool, wet summer, a row of sweet peas may be made to blossom into September, but all my remarks apply to those who want blossoms as early as possible. There is little excuse for anyone who doesn't get at least six weeks of bloom from the middle of June on.

W. T. HUTCHINS.

Massachusetts.

Cannas at Cottage Gardens.

There were four acres of the leading varieties of cannas grown here this season and they made a very remarkable sight throughout the summer. In crimson President McKinley far outstripped all others as a dwarf. It is identical in color and height with Chas. Henderson, having a rather closer truss but in quantity of bloom there is no comparison. It is simply a complete mass of bright crimson. It has dark green foliage and throws its growth very freely, and is in the first rank as a bedder or pot plant. Alphonse Bouvier held its own as a tall crimson. It was grown between Florence Vaughan and Count de Bouchard and showed itself to perfection with those two fine yellows on either side.

Philadelphia is a beautiful dwarf crimson but is not a robust grower here. Tarrytown is in every respect a superb thing and too much can hardly be said in its praise. It is of a lighter color than Philadelphia, being more of a bright red. Its blooming proclivities are unprecedented, some of the growths bearing double headers and having six trusses, combined with which it has a clean healthy growth and dwarf habit. Chas. Henderson, which has always held first rank in dwarf crimson, will have to give first place to President McKinley, as will also Beauty Poitevine, though the latter is more of a scarlet and indispensable in a collection. Giant Crimson will prove an acquisition, being a very vigorous grower and carrying a massive truss of scarlet-crimson flowers. In general habit of growth it resembles President Cleveland.

In orange scarlet varieties President Cleveland has the lead, being massive in all its parts. It closely resembles Papa, but is rather larger and better colored, being a very free bloomer. Secretary Chabane is a light orange scarlet of the President Cleveland build of flower and is undoubtedly the best light colored in this section. Chicago is a very free flowering and cleanly variety in this class and made a fine display through the entire season.

The gilt edge varieties were Souvenir de Antoine Crozy, Mrs. Fairman Rogers, Mme. Crozy, Queen Charlotte, Pierson's Premier, Cuba and Samuel Trelease. Mrs. Fairman Rogers is an improvement on Madame Crozy, being rather larger and deeper gold margin. Souvenir de Antoine Crozy is a beautiful bright flower and superior to Pierson's Premier, having a deeper golden band and better habit of growth. Queen Charlotte is of a somewhat duller color than the two preceeding ones, but it makes up for much in its immense quantities of bloom. Cuba seems destined to outstrip all of these; it is very large in flower and truss and of dwarf habit and very cleanly in appearance. Samuel Trelease is one of great beauty on the type of Madame Crozy. It is entirely distinct and stands unrivalled. There is no question of its coming popularity, for all who see it fall in love with it on sight.

The yellows were led by Eldorado and Defender for mass effect. In tall yellows Count de Bouchard and Florence Vaughan rank first; the former is a slight improvement over the latter in size of flower, but there is little to choose between them. As a very dwarf, Yellow Crozy is a great acquisition. The flowers are a pure yellow and stand the sun without much bleaching and it is a healthy grower. Brilliant is an exquisite thing of pure lemon with a few small bright scarlet blotches. Doctor Masters is another gem of golden yellow with a very delicate raying of scarlet

from the center of the flower. Captain Drugan showed well; it is of the type of Florence Vaughan, being dwarf in habit.

Black Beauty and Bassett's Red were the leaders in the dark-leaved section. They are the perfection of high color. Bassett's Red is tall and Black Beauty dwarf, making them both indispensable for color massing. Souv. du President Carnot has rich crimson flowers and fine dark foliage. It is very floriferous and a fine grower. Egandale is a free bloomer with bright crimson flowers and bronze green foliage; one of the best. Leonard Vaughan is a crimson scarlet with fine truss and magnificent dark foliage. Admiral Avellan made a grand show of orange scarlet flowers and displaces J. D. Cabos as a tall variety. President Carnot is also a fine one in this class.

Mlle. Berat represented the pink class here. It is a very beautiful and desirable canna. It holds its color perfectly and makes a splendid display. Its unique and pleasing color will create a great demand for it.

New York.

ROSES SUFFER FROM COMPETITION OF CHRYSANTHEMUMS.—VIOLETS IN DEMAND AND PRICES ADVANCING.—COMING EXHIBITION OF GARDENERS' SOCIETY.—TWO FLORISTS ARRESTED. — BRIEF LOCAL NOTES AND PERSONALS.

A steady improvement, interrupted temporarily by election day, is the present condition of the cut flower business in New York City. Chrysanthemums are now in their height and it is wonderful to note the vast quantities that some of the wholesalers manage to put through their hands each day. Roses suffer noticeably from the influence of the chrysanthemums. Outside of a limited number of selected flowers roses move slowly and at lump prices that are exceedingly low. Violets are soaring, the demand very brisk and stock of the right kind in short supply. Carnations are improving in quality if not in quantity, but while chrysanthemums abound they enjoy no special prominence. Orchids are elegant. Cattleyas, Dendrobium Phalaenopsis, cypripediums and oncidiums are quite frequently seen, and it would seem that each year adds to the popular appreciation.

A tempting array of special premiums appears on the schedule for the chrysanthemum show of the New York Gardeners' Society, which is to be held on Saturday, November 19. The donors are J. M. Thorburn & Co., A. H. Hews & Co., Clucas & Boddington Co., F. L. Atkins, W. A. Manda, Thos. W. Weathered's Son and others. Competition is limited to private gardeners excepting in three classes, which are open to all. Schedules may be obtained from J. I. Donlan, 365 Fifth avenue, New York City.

A. Herrington has gone to Chicago to serve as judge in the chrysanthemum show. He is sending many superb specimen chrysanthemums to Thos. Young, Jr., now.

Frank Millang reports early morning business at the market as booming. Frank closes his doors at 4 p. m. every day. It is nice to be prosperous.

John Reickert is sending, among other varieties, some fine blooms of Louise D. Black. Ten thousand hybrid roses are in the frames at New Durham waiting to take the places occupied by the chrysanthemums.

The dyed chrysanthemum has made its appearance again in many of the florists' windows. Not the atrocious emerald green sort, but a soft pink that would be pretty if only natural.

Geo. M. Stumpp has had an employe and a local florist arrested, the former for stealing plants and the latter for receiving the stolen property. Both are out on bail.

Chas. H. Allen has disposed of his bulb business to J. Lewis Childs, and in exchange has taken the range of greenhouses formerly belonging to Julius Scharfi at Floral Park.

The younger James Weir, of Brooklyn, is duly elated over the birth of a daughter on Sunday, October 30.

Fine specimen plants of Acalypha Sanderi adorn the windows of Vaughan's Seed Store on Barclay street.

Joseph Falardeau has opened a store at 1389 Broadway.

Chicago.

THE MARKET.—ALL SURPLUS STOCK GOES TO MINNEAPOLIS.—THE CLUB MEETING. —THE ANNUAL BANQUET.—CAPT. SCHUNEMAN MEETS A MARINER'S FATE.

The market has not been overburdened with stock this week, but there have been enough flowers to meet all demands. It is said that the largest orders ever shipped out of Chicago went on Friday to Wm. Donaldson & Co., Minneapolis, and pretty well cleared the market of carnations and low priced chrysanthemums. L. S. Donaldson was in the city on Monday and stated that the orders placed by his firm aggregated 25,000 carnations and nearly as many 4-cent chrysanthemums.

Much interest seemed manifest at the first meeting of the Florists' Club under the presidency of Edgar Sanders, who, on taking his chair, plead indulgence for his shortcomings, promised his best efforts for the good of the club and asked the cordial support and regular attendance of the members. Following the paper by J. T. Anthony the discussion turned to the application of some very practical suggestions made by that gentleman. On motion of Mr. Rudd a reception committee consisting of John Reardon, Andrew McAdams and John Zech was appointed to receive visiting florists at the show. The committee was instructed to provide a visitors' register and admission badges. The trustees were asked to see that members of the club were supplied with suitable badges to be worn during the show, a matter the neglect of which had been previously commented on. William Wallace, of Oregon, made a pleasant talk and was invited to exploit his insecticide at the next meeting.

Thursday evening at the Sherman House the Florists' Club entertained the judges of the show and visiting friends in the trade at a banquet. President Sanders presided and made an excellent toastmaster. Some seventy plates were laid, and the occasion was one of the happiest in the history of the club.

Following the dinner Prof. John T. Cowell, who was mentioned by the president as the "man who was put on, and not put off, at Buffalo," was called on. Prof. Cowell said he regretted that he had not taken advantage of the inclement weather and kept away as speech making had never been his forte. "How does the Botanic Garden benefit the commercial florist?" he had been asked. When an old lady has a plant which she has nursed past its present usefulness, she donates it to the Botanic Garden, and the florist gets a chance to sell her a new one. Seriously he believed the plan of the garden a good one, and hoped the day was not far distant when such gardens will be as plenty in this country as they are in Europe.

A. Herrington was called upon as representing that famous home of floriculture, Madison, N. J. He said it could well be called the Rose City, sixty-eight establishments being devoted to that class of flowers in a town of some 5,000 inhabitants, but, he said, their prize winning roses would not have taken third place at Chicago. He believed that the phrase Windy City is a libel on Chicago, and that the atmospheric manifestations are not wind in the ordinary sense, but a displacement of air caused by the extraordinary activity prevailing.

Emil Buettner closed his remarks with the suggestion for a spring show, believing the time had come when such an exhibition would add to and increase the prestige of our present fall displays. Remarks applicable to the affairs of the Chicago Horticultural Society were made by Messrs. Vaughan, Grant and Rudd, and James Hartshorne entertained the company with a typical old English coachman's song. James Gurney, long with the Missouri Botanic Gardens, thoughtfully called to mind the lofty mission of the florist, who placed in the human heart the love of the beautiful in nature. He strongly urged the increased use of greater variety in bedding plants and borders, and hinted at the need of increased care in the blending of colors in planting.

J. Austin Shaw read an entertaining prose poem in his usual happy style. John Thorpe recalled the beginning of the S. A. F. fifteen years ago in an adjoining room in the same hotel, reminding the club of the growth of floriculture during that time. A. C. Kohlbrand, of Cincinnati, read a very facetious dialect letter from Herr Blumenschneider criticising flower show judges and advocating as a substitute that each man be the judge of his own exhibit. Messrs. W. H. Ellis, O. P. Bassett, Phil Hauswirth, J. A. Evans and many others made short talks pertinent to the occasion.

In the severe storm of Thursday the schooner H. Thal was wrecked twenty miles north of Chicago and her captain, H. Schuneman, and his crew drowned. Capt. Schuneman is well known to the trade, as he annually brought green and Christmas trees from Wisconsin and sold them from moorings at the Clark street bridge. He will be missed.

Boston.

A GREAT SOCIAL EVENT AT WABAN CONSERVATORIES. — MANY DISTINGUISHED VISITORS.—HOW THE CHRYSANTHEMUMS APPEARED.—A TRIP TO J. S. BAILEY'S.—FINE SPECIMEN PLANTS.—SEVENTY-FIVE THOUSAND CHRYSANTHEMUMS AT E. R. PEIRCE & SONS'.—STRANGERS IN TOWN.

The great event of recent date in this vicinity was the annual visit to Waban Conservatories which took place on Thursday, November 3. Jos. A. Dirwanger, of Portland, Me., Hon. C. W. Hoitt, Nashua, N. H., Wm. Appleton, Providence, R. I., P. O'Mara and Henry Dailledouze, of New York, and Prof. Louis C. Elson were among the visitors, among whom were also included a number of gentlemen prominent in state and municipal affairs and a large representation of the local floral fraternity, wholesale, retail and private and commercial grow-

ers. An hour and a half was spent in inspecting the wonderful chrysanthemums, most of which were just in their prime, and the roses which are always a great attraction at Waban Conservatories. Among the newer chrysanthemums that attracted much admiration were Mrs. Weeks, Mrs. Robt. Carey, Pennsylvania, Symphonia, Frank Hardy, Mme. Philip Rivorie, Autumn Glory, Gold Standard, Chimpwee and Golden Gate. All the popular and well-known varieties were also in elegant display. The Yellow Fellow did not show up well, both foliage and flower being in poor condition. Maud Dean also appeared unhealthy. W. H. Chadwick, Dolores and a few other late varieties were not sufficiently matured to show their points fully.

After the visitors had satisfied themselves with flower gazing and recorded their names in the big register, Mr. Wood, who had accompanied the party from Boston, led the way to the carriages and all were conveyed to Bailey's Hotel at South Natick, where an elegant dinner was served. Speech making, singing and general felicity occupied the balance of the afternoon. Lawrence Cotter served as toast master in his usual acceptable manner. Eloquent speeches were made by Postmaster Thomas, of Boston, Hon. Jos. O'Neil, Pres. F. H. Appleton, of the Massachusetts Horticultural Society, Mr. B. F. Keith and all the gifted brethren of the craft, such as Warren Ewell, P. O'Mara, M. H. Norton, Judge Hoitt and John Galvin. J. M. Galvin led the singing as he only can do it. The number present was seventy-four and the occasion was in every respect a memorable and most happy affair.

On Friday the Garden Committee of the Massachusetts Horticultural Society and a few others visited the beautiful estate of J. S. Bailey at West Roxbury. Here the chrysanthemum plants intended for the Boston exhibition were a special attraction and the visitors lingered long in admiration of the superb specimens, which were arranged in the palm house with an elevated walk around the sides. Mr. Bailey is fortunate in having a gardener of such rare ability as Wm. Donald and he acknowledges that fact with frank enthusiasm. The stove plants, orchids, rose and carnation houses and graperies all show the work of the finished gardener. A house of vines planted last May from February struck cuttings was especially noted and pronounced unequaled by the knowing ones. An elegant lunch was served in Mr. Bailey's dining room.

On Monday, November 7, the chrysanthemum farm of E. N. Peirce & Sons at Waverly was visited. Seventy-five thousand chrysanthemums of fine quality is a sight but seldom seen in one establishment and the marvel of all was how and where the proprietors manage to dispose of such an enormous crop. After a tour through the houses the visitors were entertained with characteristic liberality by the Messrs. Peirce.

At the meeting of the Horticultural Society on November 5, the executive committee reported an appropriation of $8100 for prizes and gratuities for 1899. It was voted that the society offer the use of its halls to the National Farmers' Congress which is to be held in Boston next year.

Visitors are numerous in Boston this week, drawn by the annual chrysanthemum show which is now on. Ernst Asmus, J. H. Taylor and B. F. Dorrance came in from New York by the Fall River Line on Tuesday morning, and judging from the number of Newporters one meets in the halls, that city by the sea must be nearly deserted for the time being.

Geo. Morton Chase, son of Geo. H. Chase of the Chase Nursery Company, at Malden, was married on November 2 to Miss Anna B. MacKeown, of Boston.

Some Troublesome Insects.

The worst insect pest of the chrysanthemum, in this part of the country at least, is the black or brown fly, Siphonophora chrysanthemi. This insect is one of the plant-lice, and may nearly always be found on chrysanthemum plants either in the greenhouse or outside unless vigorous measures have been taken toward its extermination. It is rarely found upon anything except the chrysanthemum and a few allied plants. The young shoots are a favorite situation for the black fly, and often one sees the stems just below the tips literally covered with these aphides sucking the sap from the plant. As a rule they are difficult insects to kill and the ordinary remedies do not serve to exterminate the pest, though they, of course, help to hold it in check.

Tobacco dust on the plants and fumigating the house with tobacco are methods usually practiced against the black fly, and so far as my experience goes they are not very satisfactory and kill only a portion of the aphides. The fumes can be made strong enough to kill them all, but there is then danger of injuring the foliage. Tobacco decoctions made by steeping one pound of tobacco stems in water and diluting sufficiently to make two gallons of liquid, will, if sprayed upon the plants, kill most of the insects with which it comes in contact, but some will escape, and several applications are necessary during the growing season. Then the black liquid discolors the foliage, and unless washed off mars the appearance of the plants. Whale oil soap and fir tree oil are somewhat cleaner to use but are no more effective, and fir tree oil is too expensive to use in large quantities. Carbon bisulphide is sometimes employed, but there is always more or less danger of injuring the plants if used strong enough to kill the insects; then, too, it is exceedingly inflammable and must be used with care. Fumigating the house with hydrocyanic acid gas is a sure way, if properly managed, to rid it of all animal life, but extreme caution is a necessity, for this is one of the most deadly poisons known. On account of being such a violent poison its use is always attended with more or less danger, and at many establishments the proprietors prefer to use other methods of destroying the black fly than to run this risk.

During the season of 1898 our chrysanthemums have been kept practically free from black fly by the use of kerosene and water. On the whole this treatment seems to me the most satisfactory of anything I have ever employed against the insect. Kerosene and water do not as a rule mix readily, but the mixing can be done under pressure, and the Deming Co., of Salem, Ohio, manufacture a pump with a kerosene attachment for this purpose. Our spraying was done with a bucket pump. The kerosene attachment is provided with an index which allows the kerosene to mix with the water in any proportions from five to fifty per cent. While perhaps not strictly accurate the indicator is approximately so, and near enough for practical purposes. Fifteen per cent of oil is sufficient for most soft bodied insects, and gave excellent results against the black chrysanthemum aphis. A larger proportion of oil cannot always be used with safety on the more tender plants in foliage. Five per cent failed to destroy the insects, while fifteen per cent killed nearly every one, and not a plant was injured. Two thorough sprayings were given, and a small portion of the plants were sprayed a third time from the potting of the rooted cuttings to their blooming season. On account of the cheapness of this remedy, together with the safety and effectiveness that accompany its use, I expect it will soon be employed to a considerable extent in greenhouses, not only against black fly, but against green fly, mealy bug, thrips and scale insects.

A few weeks ago chrysanthemum stems were sent to me that had been attacked by borers. A larva of the stalk borer, Gortyna nitela Guenee, was at work inside one of the stems. It is the first time I have known this insect to attack the chrysanthemum, though it injures a variety of plants, including the potato, tomato, corn, aster, dahlia, cocklebur, and species of lilium. It was especially destructive to Lilium candidum during the season of 1897. Very little can be done in fighting this insect except to destroy all infested plants.

Another quite serious pest of the chrysanthemum is the leaf miner, Phytomyza chrysanthemi. This insect was not known to attack cultivated plants until about twelve years ago. It seems to be quite local in its destructiveness; it has never caused any injury here at the Station, yet fifty miles away it has at times been so destructive that florists made statements to the effect that unless the ravages of this insect abated they would be compelled to give up growing chrysanthemums. It does not seem to be as troublesome as it was a few years ago. The adult is a small fly which deposits the eggs either in or on the leaves. The eggs soon hatch and the larvae, which are small, footless maggots, begin to mine and tunnel in the leaves between the epidermis of the upper and that of the lower surfaces. When full-grown the larva transforms into a pupa within the mines of the leaf and later the adult fly emerges. The only remedy known is to destroy all infested leaves. According to Mr. Coquillett (*Insect Life*, vol. vii. p. 399) this leaf miner is also found upon cinerarias, tansy and eupatorium.

The drone fly, Eristalis truax, is nearly always found about chrysanthemum flowers, but it does no great harm to them. In fact, some growers consider the fly a great benefactor because it pollinates the flowers and the plants bear seed in consequence. Just how much good is done in this way by the fly has not been definitely determined but it certainly visits the flowers. Some growers kill the fly because it soils the blossoms.

Connecticut. W. E. BRITTON.

BAY CITY, MICH.—Boehringer Bros. have an exceptionally fine stock this season and report a prosperous trade.

NEW HARMONY, IND.—Wm. Hartman has just completed a large addition to his greenhouses.

OMRO, WIS.—The Omro Horticultural Society holds its November meeting and annual chrysanthemum show November 16 to 18.

MELROSE, MASS.—The Amateur Gardeners' Association has increased in membership very rapidly and its future prospects are exceedingly bright.

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WE trust our readers will carefully peruse the pages of this issue of the AMERICAN FLORIST, and give the advertisers therein a trial order when goods such as they handle are needed.

INCLEMENT weather, though without much snow, has lessened the quantity of green picked in Wisconsin, and although prices have been reasonable, compared with former years, there is—in view of the continued stormy weather, much rain and some snow—little probability of a surplus this season. One great advantage in the cold, moist weather is that nearly all stock so far received has been first-class in every way. Buyers are better posted than ever as to quality required.

Greenhouse Building.

Lisbon Falls, Me.—M. D. Goddard & Son, one greenhouse.

Congers, N. Y.—Joseph Schneider, one carnation house.

Chalfont, Pa.—Massenger Bros., one violet house.

Philadelphia, Pa.—Ralph Morgan, conservatory 20x115.

The Age of Palms.

ED. AM. FLORIST:—Can the age of palms be determined by any means?

SUBSCRIBER.

No exact method applicable to all cases is known to me. Experienced cultivators of palms can make surprisingly good conjectures as to the age of certain palms, but such determinations appear to be only approximate at best.

GEORGE L. GOODALE.

Cambridge, Mass.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

Robt. Sandiford, Mansfield, O., has registered at the secretary's office the following new plants:

Pelargonium Sandiford's Surprise; large black blotches on upper petals, edged fiery red, surrounded with a broad band of white. Lower petals white with bright red spots in center of each.

Sandiford's Wonder; semi-double, pure white, heavily fringed and crumpled. Some flowers showing small maroon spots in upper petals.

Sandiford's Best; pink, edged with a deep band of white, large pure white throat, large full trusses.

WM. J. STEWART, Sec'y.

The Dutch Horticulturists.

At the September meeting of the Dutch Horticultural and Botanical Society, held in Amsterdam, the floral committee made the following awards: First-class certificates to H. Hornsveld for Canna Hofgartendirector Wendland, cactus dahlias, Arachne, Capstan, Keyne's White and Standard Bearer; T. E. Houtvester for Canna H. Wendland; E. H. Krelage & Son for Canna Stadtrath Heidenreich, cactus dahlias, Arachne, Capstan, Daffodil, Keyne's White, Kingfisher, Night, Norfolk Hero and Standard Bearer, and Montbretia crocosmæflora Oriflamme; W. Van Veen for cactus dahlias Arachne and Keyne's White; B. Ruys for Cactus Dahlia Keyne's White; Groenewegen & Son for Rubus sorbifolius; V. Schertzer & Son for Tagetes Lemon Queen and T. Prince of Orange. Certificates of merit to T. E. Houtvester for Chrysanthemum Harvest Home; P. Van Noordt & Son for cactus dahlia Koningin Wilhelmina; H. Hornsveld for cactus dahlias Loreley; E. H. Krelage & Son for cactus dahlias, Loreley and Stern von Schoneberg, Lathyrus odoratus Countess of Powis and L. odoratus Lady Nina Balfour; B. Ruys for cactus dahlia Loreley. K. Wezelenburg received honorable mention for a collection of ericas and hibiscus, also Jac. Smits for a collection of syringas. J. D. Onderwater was awarded a gilded medal for a collection of cactus dahlias.

Hardiness of Ulex Europaeus.

ED. AM. FLORIST:—Please tell me through your columns what protection is needed by the furze (Ulex Europæus) when planted in the open. Can it be saved over winter? P. F.

New York.

Eight years ago I received seeds of this plant from a friend. The seeds germinated, and I have several large plants which are vigorous and healthy. In the vicinity of Boston this plant is not quite hardy and it needs slight protection in winter. In early winter, just before severe weather sets in, the bushes are bent down as near the ground as possible, large boxes being then placed over them. Outside or over the boxes a thick layer of leaves is applied. Care should be taken that they are not uncovered too early in the spring as late spring frosts do more harm than severe winter frosts.

ROBERT CAMERON.

Cement Paths.

ED. AM. FLORIST:—In reply to the inquiry of "W. S. J." I can say that we have had cement paths in our houses for the last twelve years and the only objection we can find is that they will wear out rubber hose if employes persist in dragging hose instead of carrying it. There are a great many advantages, of which durability, dryness and neatness are the most important. A properly laid cement walk will last a lifetime with practically no repairs and the first cost is not much greater, if any, than that of a good plank walk. I would add that Portland cement should be used and either sand or sifted coal ashes can be employed, sand making a smoother job, but ashes are just as durable. We have found a slightly convex surface the best adapted for our work. A. H. LANGE.

ED. AM. FLORIST:—I notice an inquiry of "W. S. J." as to what objection there is too cement walks in greenhouses. I know of none and I have used them for the past fifteen years. All my walks that are on the ground are cemented. In my case my houses have a fall of a quarter of an inch to the foot in the length of the house and I make the walks hollowing in the center and the waste water runs to the lowest corner of the house where it is carried off by a terra cotta drain protected by grating and properly trapped so as not to allow cold air to enter. In making cement paths we first grade the walk the shape we want it when finished, and then spread on the cement about one inch thick, working the surface very smooth with a trowel. You must work the surface well if you want a good walk and if you use a good brand of Portland cement, one part cement to two parts sharp sand, you can walk on it the next day. Then you have a walk which will last a lifetime, is always easy to keep clean and saves labor in sweeping. JOSEPH HEACOCK.

Hardy Plants for Rockery.

ED. AM. FLORIST;—I would like a list of hardy plants that would thrive in a rockery about fifteen feet in diameter, where water from the fountain is playing most of the time. P.

In reply to above inquiry, we would state that it would be necessary to limit the varieties mostly to ferns, and possibly the following hardy perennials might succeed under such adverse conditions: Acanthus mollis, Astilbe Chinensis, Cimicifuga racemosa, Lobelia cardinalis, L. syphilitica, L. syphilitica alba, Lysimachia clethroides, Lythrum Salicaria, L. virgatum, Lythrum species from Japan, Myosotis palustris semperflorens, Ophiopogon Jaburan, Polygonatum multiflorum, Saxifragra crassifolia, Spiræa aruncus, S. astilboides, Thalictrum minus, Tradescantia Virginica, Trollius Europæus.

These, however, would be more a list from which to experiment than one on which we would care to place positive assertion that they would do well.

J. WOODWARD MANNING.

Liquid Fertilizer for Chrysanthemums.

For three years we have treated chrysanthemum plants with a liquid fertilizer prepared after a formula given by Prof. Paul Wagner, director of the German Experiment Station at Darmstadt. This solution was given to the plants twice a week, beginning about six weeks before the blooming season and continuing until the season is over. The results have been satisfactory and fine plants with good foliage and blooms have been produced. The solution is much cleaner than liquid manure, and the cost of preparing it is extremely small. It is called Wagner's solution and may be prepared as follows:

Phosphate of ammonia,	2 oz.
Nitrate of soda,	1¾ oz.
Nitrate of potash,	1¾ oz.
Sulphate of ammonia,	1⅓ oz.
Water,	50 gals.

This makes an excellent liquid fertilizer for other plants as well as chrysanthemums, and we always keep it on hand.

W. E. BRITTON.

Specimen Chrysanthemums.

The exhibition season is now upon us and it affords growers an excellent opportunity to compare notes. We try many new varieties every season, though often advised not to do so, but rather stick to what we know to be good. It is an acknowledged fact, however, that the life of a variety is comparatively short, and that many new varieties will be forgotten, almost, in a year or two.

My selection for 1892 included the following popular varieties: Cullingfordii, M. Delaux, Mabel Ward, Jos. H. White,

Louis Boehmer, Ivory, Mrs. Alpheus Hardy, G. Daniels, Yellow Ball, V. H. Hallock, W. H. Lincoln, Mrs. Fottler, G. W. Childs, Hicks Arnold, President Hyde, Duchess of Connaught and C. B. Whitnall. Any grower will admit this was a representative collection. But very few of these are grown to-day. While we are carried along somewhat by novelty, a majority of these varieties have been discarded because we have better ones. A few still remain, unexcelled for the purpose of specimen plants, but these have been discarded long ago by the cut flower growers.

Better plants are grown now than was the case some years ago. We have become more exacting in our demand for improved form in the flowers, brighter colors, better shaped plants and more luxuriant foliage. We have disbudded closer for increased size, following the plan of the grower for blooms, but in part, because we have had to accept cut flower varieties if we wished to be up-to-date. However much improved in foliage and symmetry the plants of to-day have become, the line of advance requires that we continue to change. It is not necessary to follow the cut flower grower. Those who have watched the public closely in their criticisms know that a neatly formed pompon is most admired.

Beauty of form, clear colors, and an effective mass of bloom tell most, irrespective of the size of the individual flower. We can spread more color over our plants by less disbudding, as we did years ago. Stakes are a nuisance at best. It is unnatural to fill a pot with stakes. Plants trained on wire frames are less clumsy in appearance. A frame can be taken off more quickly than it is possible to remove stakes, and all the parts belonging to each can be tied together with a tag on each giving the diameter, and the name of the variety on which it was used, if thought convenient, and laid away for another season. When once a frame is placed in position the work of tying is easy.

Having taken our notes, discarded our failures and selected our list for another season we should begin at once to make sure of our stock. We can take cuttings and these when rooted can be kept cool until the time comes to grow them along. Sometimes it may be necessary to retake them. My own stock is kept in a well-protected frame, where occasionally the plants are frozen, but not enough to do them harm; perhaps it does them good. We should not destroy the foliage on specimens until it dies a natural death. This would strengthen the stool, but there are few who can afford the required space.

This season finds me a week later than usual. I am too late for the exhibition in Boston November 8 to 11. It is customary to ask the reason, and this brings into review the season's treatment. I did not take my cuttings so early as usual because it was intended to grow them in a smaller size of pot—10-inch. In this I was following the plan of my earlier years as an exhibitor. But I then had more trouble in holding my plants than getting them in, so I do not attribute lateness to this. Then as now I selected varieties for dates, as any grower of cut flowers would do, not expecting any management to change the season of blooming, except possibly a little shading to hold those already in; but no forcing, in the strict sense of the term, would be expected to hurry them.

The plants were slow in taking hold after the final shift, and it was not until August that rapid growth began. This was continued well into September when they were larger than I wished them, averaging three feet in 10-inch pots. Referring to my notes of several previous years, I found them growing when they should be setting buds. Feeding was gradually discontinued, though not altogether, as vigorous plants would suffer a loss of foliage if this were done, and set a poor bud. It is probably safer to blame the weather (no joke). It was unseasonably hot in late August and through the greater part of September. Buds do not set until the nights begin to get cool. In this connection it is a noteworthy fact that our earliest blooms come from the sea shore and hill tops, and that chrysanthemums are later in the south than north.

T. D. HATFIELD.

St. Louis.

NO CHANGE IN THE MARKET.—FLORISTS' CLUB HOLDS ITS FIRST AFTERNOON SESSION.—WALDBART'S NEW VENTURE.

There has been no change of note in the cut flower situation during the past week. Roses have shortened up somewhat, still there is an over supply for this time of the year. Carnations are scarce, improving, however, in quality with each day.

At the last meeting of the Florists' Club twenty members were present. This was the first afternoon meeting of a series of six which will occur during the winter months, and the attendance was considerably more than we have been having at our regular evening meetings. H. J. Falkenhamer was elected to membership. O. G. Koenig's application was read.

Alex. Waldhart, formerly in business on Grand avenue and Chestnut street, has rented a store under the Lindell Hotel, where he will soon open as a retail florist. Owing to Washington avenue having become very much more of a retail street during the past few months, he expects to find the location a very much improved stand over what it was several seasons ago, when two florists tried to make a success in the same location and failed.

R. F. T.

Springfield, Ill.

Brown & Canfield have no complaints to make about their chrysanthemums. Although some varieties, such as Mme. Bergmann and Robinson, are rather late they have many others which are in the best of condition, finding a ready market both locally and in St. Louis. They have a batch of Areca lutescens, grown in 6-inch pots, which for thrift and vigor of growth will equal the best of their kind grown by specialists. These plants were grown from seed in their own establishment.

Miss Bell Miller has added five houses to her establishment, having now a total of 20,000 feet of glass. She has likewise remodeled and has otherwise improved the other houses, having changed the heating system from hot water to steam. Miss Miller is a successful carnation and rose grower and ships most of her stock to the St. Louis market. Among other varieties in roses, President Carnot is grown very successfully.

Two houses of ferns in the finest conditions, in various stages of growth is what one finds at Louis Unverzagt's place. This is a case of having too much of a good thing, although Mr. Unverzagt expects to ship quite a few to wholesale dealers. His palms and general stock look fine and thrifty.

Mr. Phelps reports an improvement in business.

HOMO.

ROCHELLE, ILL.—Dwight Herrick is making extensive improvements on his greenhouses. He finds trade good.

ANDERSON, IND.—Stuart & Haugh have this year grown some splendid chrysanthemums. Their entire stock is in fine condition.

LAKE GENEVA, WIS.—Frank F. Manahan, of the Lake Geneva Floral Company has an extensive job of landscape gardening upon the Beidler estate.

BROCKTON, MASS.—The Brockton florists are working together with much enthusiasm for the success of their exhibition, which is to be held on November 16, 17, 18. Premium lists can be had of B. Ellis Eaton.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By first-class fireman and steamfitter. Address Y N, care Am. Florist.

SITUATION WANTED—By rose grower, married man. Chicago references. Address T T, care American Florist.

SITUATION WANTED—By all-round workman on or before Dec. 1st. Good fireman, propagator, etc. Address N Y, care American Florist.

SITUATION WANTED—At once, by English grower well up in growing for market. Low terms accepted for start. A W W, care Am. Florist

SITUATION WANTED—By experienced florist and grower fine roses, carnations, mums, violets; good designer. Best references. G, Box 547, Alliance, O.

SITUATION WANTED—By first-class grower of cut flowers and plants with 20 years' experience; single. Fair wages expected. K K, care H. Kuehlke Kansas City, Westport, Mo.

SITUATION WANTED—By practical florist of 15 years' experience; good flower grower, roses, carnations, etc; competent to take charge; now disengaged; German, single, sober, reliable. Address V G, care American Florist.

WANTED—Two young men to assist in general greenhouse work. Address, stating wages with board. R, care American Florist.

WANTED—Single man to take care of section of rose houses. Call at REINBERG BROS'., 51 Wabash Ave., Chicago.

WANTED—An offer to buy or rent greenhouses in a good city of 60,000 inhabitants. A good chance for the right man. Address J K, care Am. Florist.

WANTED—A good all round greenhouse hand, one who has worked in commercial places. Wages, $20 per month with board. W. L. SMITH, Aurora, Ill.

WANTED—2400 feet 10x12 or larger size single or double and 2400 feet rafters. No objection if second-hand material. State price. Address J. K. POSTMA, Princeton, Ky.

FOR SALE—Elegant florist's refrigerator, cheap; on view flower show. HIRSCHHORN, 46 Madison, Chicago.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

FOR RENT—Two greenhouses, about 5000 feet glass, a good retail stand in city of Asheville, N. C.; also dwelling house if desired. Fine opportunity for a good tenant. Address REV. H. M. PARKER, James Island, S. C.

FOR SALE.

A well established and paying florist's business, with 10 to 30 acres of land, 17,000 square feet of glass. Good residence and houses for help. Situated near one of the largest cities in California. Ill health and desire to retire from business cause for selling. For full particulars address

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A florist establishment for sale consisting of 13,000 square feet of glass, in good condition. Heated by steam; in the city limits, located in a city of 18,000 inhabitants on the Mississippi river in Iowa, with several acres of land and dwelling house. Must sell soon on account of old age. For further particulars address

IOWA, care American Florist.

The Cold Grapery.

ED. AM. FLORIST:—Permit me to ask for information as to the best time to trim grape vines in a cold grapery, also as to when they should be started? R. L.

The best time to prune grape vines in a cold grapery is immediately after the leaves have fallen. If the frost has affected the leaves while they were green they will not fall off and in that case the vines should be pruned as soon as the frost has killed the leaves. When the vines are pruned and the house cleaned, tie the rods horizontally along the lower wires and place some shading over them to protect them from the sun. This covering should be so adjusted that the vines can be easily examined and when the buds begin to swell it should be removed. There is no set time to start the vines. They will start when the weather becomes sufficiently warm to promote growth and the chief trouble, I find, is to keep them from starting too soon. To prevent this the vinery should be freely ventilated all winter, when the weather permits. The retarding must be done before the eyes swell, for if attempted afterwards it is certain to prove a failure.

GEO. MCWILLIAM.



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THE Holly situation changes nearly every year. For the last three years they've begun to bring it into the country towns like potatoes. Every man has taken to cutting his own—or some other man's Holly, and packs it well, badly or indifferently, or any old way. The result is very bad for the retail florist. When we first started the Holly business, in 1880, our buyer contracted for a man's grove and cut the best and sorted it himself, and established Vaughan's XXX Stock as a brand worth having. It is nearly 20 years old—almost of age—and has held its own well. But we wondered why so many culls came our way (to sell to peddlers at half rates) and this fall our Mr. Vaughan located this town market Holly system, and cut it off from our man. We are buying and packing our Holly in the woods ourselves, and it costs more money, but it is worth to the retailer a lot more than it costs. **A good case of Holly is easily worth Ten Dollars, while cull stock can't be given away.**

We can suggest delivery dates which will keep you in good supply on the best days for selling Holly. Our prices are not advanced. How much can you use?

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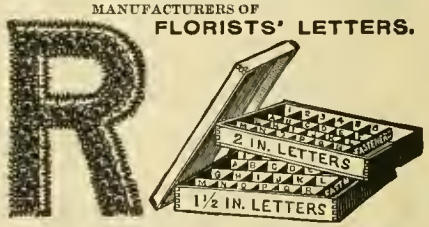
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Smilax, per dozen	1.25@2.00
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" 15 "	1.25 to 1.50
" 12 "	1.00
" 8 "	.75
METEOR per 100,	$3.00 to $4.00
BRIDESMAID "	3.00 to 4.00
BRIDE "	3.00 to 4.00
KAISERIN "	3.00 to 4.00
PERLE "	2.00 to 3.00
CARNATIONS "	1.25 to 1.50
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Roses, Beauties, extra long, per doz.	3.50@4.00
" " 24 inch " "	2.50
" " 20 " " "	1.50@2 00
" " 15 " " "	1.25@1.50
" " 12 " " "	1.00
" " 8 " " "	.75
" Brides	3 00@ 4.00
" Kaiserina	3.00@ 4.00
" Bridesmaids	3 00@ 4.00
" Perles	2.00@ 3.00
" Meteors	3.00@ 4 00
Carnations	1.25@ 1.50
" fancy	2 00@ 3.00
Lily of the valley	4.00@ 5.00
Adiantum	.75@ 1.00
Common ferns	.20
Smilax	10.00@12 50
Asparagus	40.00@50.00
Violets	1.25
Chrysanthemums	8 00@15.00

VAUGHAN, McKELLAR & WINTERSON,

Wholesale Florists,

45-47-49 Wabash Avenue, - - - CHICAGO.

CUT FLOWERS AND ALL FLORISTS' SUPPLIES.

Orders booked now for XMAS..... HOLLY and BOUQUET GREEN.

See our Adv. of CYCLAMEN PLANTS elsewhere in this paper.

Mention this paper.

S. B. WINTER,

(Successor to WINTER & GLOVER,)

21 Randolph St., Chicago.

HIGH GRADE **CUT FLOWERS,**

PACKED RIGHT,

so they will reach you in just as good condition as they reach us.

WIRE DESIGNS: A Full Line. Write us for our Illustrated Catalogue.

...LOUISVILLE...

Florists' Supply and Exchange

Wholesale Florists and dealers in Florists' Supplies

Special facilities for shipping south. Unequalled returns for good stock. Open night and day.

520 W. Jefferson St., - LOUISVILLE, KY.

Successful growers become successful sellers when they advertise in the American Florist.

WIETOR BROS.

SUCCESSORS TO ROGERS PARK FLORAL CO.

Wholesale Growers of **CUT FLOWERS**

51 WABASH AVENUE,

Headquarters For American Beauties. CHICAGO

KENNICOTT BROS. CO.

WHOLESALE CUT FLOWERS AND FLORISTS SUPPLIES.

WIRE WORK A SPECIALTY. 88 WABASH AVE. CHICAGO.

Bassett & Washburn

88 Wabash Ave., CHICAGO.

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GREENHOUSES: HINSDALE, ILL.

A. L. RANDALL

Wholesale Florist

Don't Forget that we are at 4 Washington St., Chicago.

Write for special quotations on large orders.

Lynch WHOLESALE FLORIST.

19-21 E. RANDOLPH ST. CHICAGO

A. G. PRINCE & CO.

Wholesale Cut Flowers

AND FLORISTS' SUPPLIES.

Agents for the Hinsdale Rose Co. Special attention paid to shipping orders.

88 & 90 Wabash Avenue,

Telephone Main 3208. CHICAGO.

CINCINNATI CUT FLOWER CO.

SUCCESSORS TO H. L. SUNDERBRUCH CO.

Wholesale Commission Florists

416 Walnut St., CINCINNATI, OHIO.

Consignments Solicited. Special Attention Given to Shipping Orders.



Samuel S. Pennock, Wholesale Florist,
1612-14-16 Ludlow Street, ...PHILADELPHIA, PA.
.....FINE VALLEY AWAYS ON HAND.
AMERICAN BEAUTIES OUR SPECIALTY.
CHOICE STOCK OF ASSORTED ORCHIDS.

GEO. A. SUTHERLAND. BOSTON... FLOWERS
Wholesale Depot for all Florists' Supplies.
Price Lists mailed. 67 Bromfield St., BOSTON, MASS.

CITY HALL CUT FLOWER MARKET, 9 Chapman Place, 15 Province Street, BOSTON, MASS.
WELCH BROS., PROPRIETORS.
Consignments from regular growers assigned separate space in our market. We guarantee payment for all flowers sold. Sales reported weekly. Payments monthly, or oftener if required.
THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

Wholesale Florists, Always on Hand: CARNATIONS, BRIDESMAIDS, BRIDES.
JOBBERS IN FLORISTS' SUPPLIES
FLORISTS' VASES.
Horticultural Auctioneers.
84 HAWLEY STREET, BOSTON.
N. F. McCarthy & Co.

GALVIN & CO.
Wholesale Florists
AND DEALERS IN ALL
FLORISTS' SUPPLIES.
4 Ordway Place, BOSTON, MASS.
Cut Flower Consignments Solicited. Best market.

N. Y. CUT FLOWER EXCHANGE
404-412 E. 34th St. Near Ferry.
Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

John Conley & Son,
Manufacturers of
TIN FOIL
2 AND 4 DOMINICK STREET,
New York.

F. J. FOSTER
WHOLESALE FLORIST
109 N. 11th St., ST. LOUIS, MO.
SPECIAL ATTENTION PAID TO SHIPPING ORDERS. CONSIGNMENTS SOLICITED.

GEO. A. KUHL,
Wholesale Cut Flowers
ROSES AND CARNATIONS.
GEO. A. KUHL, - Pekin, Ill.

It is good business policy to mention the
....American Florist
when you write to an advertiser.

Wholesale Flower Markets

PHILADELPHIA, Nov. 9.

Roses, Teas	2.00@ 4.00
" " extra	4.00@ 6.00
" Beauties, extra	12.50@16.00
" " firsts	6.00@ 8.00
" " seconds	4.00@ 6.00
Carnations	1.00@ 1.50
Lily of the valley	3.00@ 4.00
Asparagus strings	.35 00@50.00
" Sprengeri per bunch	.50@1.00
Smilax	12.00@15.00
Violets, double	.35@ .50
Cosmos	.25@ .50
Chrysanthemums	12.00@16.00

BOSTON, Nov. 9.

Roses, Beauties	5.00@20.00
" Kaiserins	2.00@ 8.00
" Brides, Bridesmaids, Meteors	1.00@ 4.00
Carnations	.50@ 1.50
Lily of the valley	2.00@ 4.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00
Chrysanthemums	2.00@10.00
Violets	.50@ 1.00

C. A. KUEHN,
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

ELLISON & TESSON,
Wholesale Shipping
FLORISTS
3134 Olive Street, ST. LOUIS, MO.
HOME GROWN STOCK.

C. W. WORS
2740 Olive Street,
ST. LOUIS, MO.
FLOWERS at WHOLESALE....
.....ROSES, and a full line.
Headquarters for the South West.....

ST. LOUIS CUT FLOWER CO
Wholesale Florists,
H. G. BERNING
1620 Olive St.
ST. LOUIS, MO.

IT IS GOOD BUSINESS POLICY TO MENTION THE AMERICAN FLORIST WHEN YOU WRITE TO AN ADVERTISER.

EDWARD REID,
Wholesale Florist,
1526 RANSTEAD STREET,
Long Distance 'Phone. PHILADELPHIA.

Dumont & Co.
WHOLESALE FLORISTS.
Carnations a Specialty
1305 Filbert Street, PHILADELPHIA.
TELEPHONE 3922 D.

Geo. M. Moss,
WHOLESALE FLORIST,
30 South 17th Street, PHILADELPHIA, PA.
Long Distance 'Phone 1-41-26 D.
Consignments of Roses, Carnations, Violets solicited

WM. C. SMITH,
Wholesale Florist,
1604 LUDLOW STREET,
PHILADELPHIA.
Consignments Solicited. Special attention given to shipping orders

KELSEY'S SOUTHERN
GALAX LEAVES.
BRILLIANT GREEN and BRONZE.
Information of the introducer....
HARLAN P. KELSEY, 1150 Tremont Bldg., BOSTON, MASS.
Prop'r Highlands Nursery, in No. Carolina.

...GEO. M. KELLOGG...
Largest Grower of... in the West. **Cut Flowers**
Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO.
LONG DISTANCE 'PHONE AT EITHER PLACE.

HAIL For Insurance Against Damage by Hail Address
JOHN G. ESLER, - Sec'y F. H. A.,
SADDLE RIVER, N. J.

MacDONALD & McMANUS

SUPPLY ORCHIDS EVERY DAY.

ONLY HOUSE IN NEW YORK HANDLING EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

50 WEST 30TH STREET. NEW YORK CITY.
TELEPHONE 2778 38TH STREET.

Decker, Blauvelt Co.

• WHOLESALE FLORISTS •

42 West 28th Street, NEW YORK.

CONSIGNMENTS SOLICITED.....
Shipping orders will receive prompt and careful attention.

Top Grade BEAUTIES, BRIDES, BRIDESMAIDS.

Extra Carnations.

JOHN I. RAYNOR, 49 West 28th Street, NEW YORK.

WALTER F. SHERIDAN,

WHOLESALE **FLORIST**

39 West 28th Street, NEW YORK.

Roses shipped to all points. Price List on application.

ASPARAGUS PLUMOSUS NANUS!

STRINGS 8 TO 10 FEET LONG, 50 CENTS

W. H. ELLIOTT, BRIGHTON, MASS.

FRANK MILLANG,
CUT FLOWERS,
WHOLESALE COMMISSION,
408 E. 34th Street,
Cut Flower Exchange. NEW YORK.

JOHN YOUNG,
ROSES, CARNATIONS, VALLEY
and all other choice cut flower stock.
51 W. 28th Street, NEW YORK.
Price list on application.

ROSES LILIES

JULIUS LANG

53 WEST 30th STREET
NEW YORK

CARNATIONS SMILAX

Choice Carnations Choice Roses

Traendly & Schenck

NEW YORK CITY

38 W. 28th Street · Cut Flower Exchange

Now They're Cheap!!

FLOWERS, ALL KINDS

PLENTY OF THEM AT

J. K. ALLEN'S 57 WEST 28th STREET, NEW YORK.
TELEPHONE 382 38th St.

J. J. PERKINS. ESTABLISHED 1872. R. POTTER.

J. J. PERKINS & CO.,
Wholesale and Commission
FLORISTS...
52 West 29th St., NEW YORK.

Wholesale Flower Markets

NEW YORK, Nov. 9.

Roses, Beauties	5.00@20 00
" Bridesmaids, Brides	.50@ 3 00
" Morgans, Perles	.50@ 2 00
" Niphetos, Cusins	.50@ 1 00
Carnations	.50@ 1.25
" fancy	2.00@ 3.00
Lily of the valley	2 00@ 5.00
Smilax	8.00@15 00
Asparagus	35.00@50 00
Cattleyas	20.00@25 00
Adiantum	.50@ .75
Violets	.75@ 1.25
Chrysanthemums	2.00@ 5.00
" fancy	20.00@25.00

BUFFALO, Nov. 10.

Roses, Beauties	5.00@25 00
" Brides, Bridesmaids	2.00@ 6.00
" Meteors	2.00@ 6.00
" Perles, Niphetos	2.00@ 4 00
" Kaiserins	2.00@ 6.00
Carnations, ordinary	.75@ 1.25
" fancies	1.25@ 2.00
Lily of the valley	3 00@ 4.00
Smilax	10.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	.50@ 1.25
Chrysanthemums	3.00@15.00

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

WM. F. KASTING WHOLESALE COMMISSION FLORIST....
495 Washington St., Buffalo, N. Y.
Also Dealer in Florists' Supplies and Wire Designs

MILLANG & CO.
WHOLESALE
Commission Florists
48 West 29th St., NEW YORK.
Capable, experienced. Consigunents solicited.

THOS. YOUNG, JR.

Wholesale Florist

43 West 28th Street, New York.

THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,
112 and 114 West 24th Street,
Telephone 733—18th. NEW YORK.
CONSIGNMENTS SOLICITED.
Special Attention Given to Shipping Orders.

M. A. HART,
Commission DEALER IN Cut Flowers,
44 WEST 29TH STREET,
NEW YORK CITY.
THE BEST MARKET IN NEW YORK.
'Phone 1307 38th St.

Ford Bros...

Wholesale Florists

111 West 30th Street, NEW YORK.
Consignments Solicited. Telephone, 260 38th St.

EDWARD C. HORAN,
34 W. 29TH STREET,
NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country.
Price List on application.

JAMES M. KING
Commission Dealer in
CUT FLOWERS.
Good Money for your Flowers.
Good Flowers for your Money.
49 WEST 29TH ST., NEW YORK.
TELEPHONE 1675 38th St.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

D. I. BUSHNELL, Mrs. Bushnell and their son, of St. Louis, sail for Italy on November 19, for a winter visit.

MINNEAPOLIS.—C. C. Morse, of Santa Clara, Calif., who has been ill at the West Hotel for the last two weeks, has improved so that a homeward journey was decided on, and he left on November 8, going via. Omaha, with Mrs. Morse and a Red Cross nurse in attendance.

Catalogue Onion Seed Prices.

This is the time of the year when catalogue, as well as local, seedsmen are anxious to obtain reliable opinions on onion seed values, that their printed prices when issued may not only contain a fair margin of profit, but be low enough to sell out their stock. Readers of the AMERICAN FLORIST who have read our crop reports on onion seed as the season advanced, must have formed by this time a tolerably correct idea as to the available stocks of old and new onion seed. We believe it is generally admitted that the amount of good seed in sight is not likely to be too much for the coming season's demand. We have asked a leading dealer to put retail catalogue figures on the standard varieties as he thinks they should be, and we print the list below. The FLORIST would be very glad indeed to receive expressions of opinion from other seed houses on these figures. As Mr. Burpee stated at the last meeting of the Seed Trade Association, onion was retailed last year at lower prices than contracts could be made for the next season. Such a condition of affairs ought not to be repeated, and if a fairly uniform scale of prices could be adopted, great benefit to the seed trade would certainly result, not alone in fair profits to the seedsmen the coming season, but better pay for careful work by the growers.

	Per lb.
Red Wethersfield	$1.50.
Extra Early Red Flat	1.60
Southport Yellow Globe	1.70
Yellow Globe Danvers	1 40
Yellow Flat Danvers	1 40
Yellow Strasburg	1.50
White Portugal	2.50
White Globe	3.00
Southport Red Globe	3.50
Early Red Globe	2.50
Prizetaker	1.75

PATERSON, N. J.—Superintendent Hunter has a fine collection of chrysanthemums in bloom at Eastside Park.

ROCKVILLE, IND.—The annual chrysanthemum show will be held November 17 and 18 and promises to eclipse all previous efforts.

EVERY CATALOG OF

Seeds and plants should offer our Shears. Close rates. Free Electros.

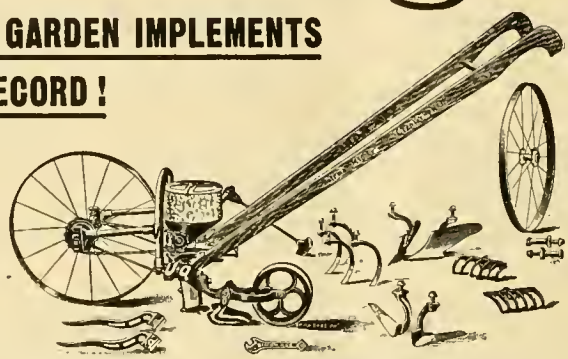
Kelly's Pruning Shears,
Flower Gatherer and Grape Picker.
All in one simple tool, which, unlike ordinary Shears, holds firmly anything cut. Indispensible to Florists, Grape or Plant Growers.



Circulars Free. Pruning Shear Co., Fremont, O.

"Iron Age"

FARM AND GARDEN IMPLEMENTS HAVE A RECORD!



Seedsmen will find this line particularly desirable for cataloging. Write for prices and cuts.

We want every Florist to have one of our "Iron Age" books. A postal card will bring a copy.

BATEMAN MFG. CO.,
Box 184..... GRENLOCH, N. J.

COX SEED CO.
SEED GROWERS
San Francisco, Cal.

Established in 1876.
SPECIALTIES....
Onion, Lettuce, Celery, Sweet Peas
IN VARIETY

BULBS and FLOWER SEEDS
FOR FLORISTS.
J. M. THORBURN & CO.
36 Cortlandt Street, New York.

TRY DREER'S GARDEN SEEDS,
Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

FOR Colored Plates, Covers and Seed Packets ADDRESS
STECHER LITHOGRAPHIC CO.,
Rochester, N. Y.

The
American Florist
IS PAID FOR CIRCULATED AND READ.

CLARK BROTHERS
Manufacturers of
Paper Seed Bags
of every description, except Lithographic Bags.
61 ANN ST., NEW YORK.

August Rölker & Sons
Supply the Trade
with Choicest Seeds, Bulbs and all Florists' Supplies; many choice Novelties offered for the fall trade....
FOR LISTS ADDRESS
52 Dey Street, NEW YORK.

Auratum AND Speciosum Lily Bulbs.
Now ready for delivery.
CLUCAS & BODDINGTON CO.,
501 & 503 West 13th St., NEW YORK CITY.

BASSETT & WASHBURN,

CHRYSANTHEMUMS

75 Cents to $1.50 per dozen.

THE VERY BEST COMMERCIAL VARIETIES.

AMERICAN BEAUTIES
THE FINEST IN THE MARKET

PRICES:

Extra long stems	$3.50 to $4.00 per dozen.
Stems 24 inches	2.50 per dozen.
Stems 20 inches	$1.50 to 2.00 per dozen.
Stems 15 inches	1.25 to 1.50 per dozen.
Shorter stems	50c to 1.00 per dozen.

We were in it at the Show

TEA ROSES
6 ENTRIES
6 PRIZES

1st	on Kaiserins
1st	on Bridesmaids
1st	on Perles
1st	on Garretts
2d	on Brides
2d	on Meteors

CARNATIONS

1st on best 50 blooms	Flora Hill
1st on best 50 blooms	any other white (Mary Wood)
1st on best 50 blooms	Jubilee
1st on best 50 blooms	Wm. Scott
1st on best 50 blooms	Mayor Pingree
1st on best 50 blooms	any other yellow (Gold Nugget)
1st on best 50 blooms	striped (Psyche)
1st on best 25 blooms	introduction of 1898 (White Cloud)
2d on best 50 blooms	Daybreak
2d on best 50 blooms	McBurney
2d on best 50 blooms	Mrs. Geo. M. Bradt
2d on best 50 blooms	Triumph

The above record shows where to obtain good stock. Buy direct from the grower and get a more even run of flowers and fresher cut. Our facilities for cooling, handling and packing the stock are the best in the West. We plant 1,000 Valley every day this season and have Asparagus, both sprays and strings, Smilax, Maiden Hair and Princess Ferns and other stock in abundance.

BASSETT & WASHBURN,

Store, 88 Wabash Avenue,
CHICAGO.

GREENHOUSES,
HINSDALE, ILL.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
A. L. BROOKE, Pres.; E. ALBERTSON Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

PROF. L. H. BAILEY has returned from a vacation spent in Europe.

HARLAN P. KELSEY reports fall sales as excellent with bright prospects for spring trade.

F. W. WATSON & Co, Topeka, Kas., have just completed a large grafting house.

ROCHESTER nurserymen consider the aggregate of fall orders as twenty-five per cent ahead of last year.

THE lateness of the season and the extraordinary drought is causing English nurserymen no end of trouble.

THE New York park board will plant 30,000 trees and shrubs in Riverside Park at an estimated cost of $18,000.

GUTHRIE, KY.—Downer Bros. gave a rabbit hunt to rid their nurseries of the animals which were destroying their young trees.

THE park commissioners of Chattanooga, Tenn., will set out 3000 silver maple and 1000 Carolina poplar on public streets this fall.

W. & T. SMITH COMPANY note apple and cherry stock well cleaned up in the vicinity of Geneva, N. Y. They expect a very large spring trade.

ALPENA, MICH.—C. E. Sans has this season made over 100 gallons of wine from elderberries grown at his greenhouses. It is suited to medicinal uses and sells readily.

PROF. E. B. FERNOW has resigned the position of Chief of the Division of Forestry of the United States Agricultural Department to take charge of the new school of forestry at Cornell University.

THE Storrs & Harrison Company reports wet weather which has put them behind in digging. They report fall orders equal to and probably exceeding last season, with improved prices on some lines.

W. G. JOHNSON, entomologist for the state of Maryland, is strictly enforcing the anti-scale law and has recently held three shipments of nursery stock which were not accompanied by certificates of inspection.

NURSERYMEN predict a lively scramble for apple and cherry seedlings before the packing season ends. The shortage of apple seedlings has already caused an advance of 50 cents per thousand and higher prices are anticipated.

ANDOVER, MASS.—The chrysanthemum show of the Florists' and Gardeners' Club was held on November 4-5. The committee in charge, J. D. Fairweather, J. H. Playdon, Geo. Millett and Geo. Piddington are entitled to much credit for the perfect arrangements and general success of the show.

Viburnum Tomentosum
A RARE AND BEAUTIFUL SHRUB.
HERBACEOUS PERENNIALS ...A... SPECIALTY
Price list and descriptive catalogue on application.
REA BROTHERS, Norwood, Mass.

FIELD GROWN
HARDY ROSES
BUDDED AND OWN ROOTS.
THE FINEST COLLECTION IN AMERICA!
ELLWANGER & BARRY,
MOUNT HOPE NURSERIES. Rochester, N. Y.

F. & F. NURSERIES SPRINGFIELD, NEW JERSEY.
Wholesale Growers, TREES & PLANTS in Full Assortment. TRADE CATALOGUE FREE.

....AUTUMN 1898....
One Million
Flowering Shrubs; full assortment; all sizes.
Half Million...
Deciduous Trees for street, lawn and avenue planting.
200,000 Vines, Ivies, Clematis, Actinedia and other sorts. Correspondence solicited.
THE WM. H. MOON CO.
MORRISVILLE, PA.

BARGAINS IN NURSERY STOCK.
GET OUR PRICES ON
Herbaceous Pæonies, Clematis,
Hardy Shrubs, Fruit Trees,
Roses, Small Fruits,
W. & T. SMITH CO.
Geneva Nursery, GENEVA, N. Y.

VIBURNUM PLICATUM...
Fine large bushes 5 to 7 ft. high, at $1.00 each, and all other sizes. Also a full assortment of hardy flowering shrubs.
SUGAR MAPLES...
10 to 12 ft., and other shade trees. Send for list.
SAMUEL C. MOON, Morrisville, Bucks Co., Pa.

THE AMERICAN FLORIST'S
COLOR CHART
is now accepted as the standard in preparing color descriptions, by many foreign houses as well as in America.
PRICE 15 CENTS POSTPAID.
AMERICAN FLORIST CO., 322 Dearborn St. Chicago

Several thousand florists supply the majority of their wants after a perusal of these pages.

AZALEA INDICA,
12 to 14 inches diameter. Fine, shapely, well-budded plants of the best forcing varieties. Prices too low for publication.
Write for Them.

Hydrangeas ...OTAKSA RED BRANCHED and THOS. HOGG
Strong, field grown plants.
With 3 to 5 crowns . . . $1.00 per 10; $8.00 per 100
" 1 to 3 " 75 " " 5.00 "

ASPARAGUS SPRENGERI, $6.00 per 100!
Fine, thrifty stuff from deep 2½-inch pots, 6 to 10 inches tall and with 5 to 10 stocks.

FIELD-GROWN HARDY ROSES
Clematis, Ornamental Shrubs and Trees, Pæonies, Herbaceous Plants, Small Fruits, Fruit Trees.
Send for wholesale price list.
Jackson & Perkins Co. Newark, New York.

FOR IMMEDIATE DELIVERY!
Amoor Privet and Hardy Lemon—best Hedge Plants.
5,000 Gardenia Florida—pot grown.
5,000 Oranges—dwarf grafted sorts.
15,000 Camphor.
500 Ficus Elastica.
10,000 Latania—4-inch pots.
1,000 Phœnix Reclinata—6-inch pots.
100,000 Cannas—leading sorts, $15.00 per 1000.
10,000 Biota aurea nana.
5,000 Rare Coniferæ.
ROSES—field-grown, on own roots and budded low.
An immense stock of Ornamental and Fruit Trees.
Send for Trade List.
P. J. BERCKMANS CO.,
FRUITLAND NURSERIES, Augusta, Ga.
Mention the American Florist.

HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
JACOB W. MANNING,
The Reading Nursery, READING, MASS.
ESTABLISHED 1854.

J. H. BOYD
TREE and SHRUB, SEEDS and SEEDLINGS,
GAGE, Sequatchie County, TENN.
Send for price list.

KENNICOTT BROS. CO.,

WHOLESALE CUT FLOWERS

Long Distance Telephone
Express 466.

AND FLORISTS' SUPPLIES.

CHICAGO, November 10, 1898.

P. AND D. AT COST.	PER 100.
AMERICAN BEAUTIES, long	$18.00 to $25.00
" " medium	12.50 to 15.00
" " short	6.00 to 8.00
BRIDES, METEORS, MAIDS	2.00 to 4.00
PERLES	2.00 to 3.00

ROSES, OUR SELECTION, $2.00.

CARNATIONS, common	.75 to 1.00
" fancy	1.25 to 2.00
VALLEY	4.00 to 5.00
VIOLETS	1.25
CHRYSANTHEMUMS	8.00 to 15.00
" medium	4.00 to 7.00
ADIANTUM	.75 to 1.00
SMILAX	10.00 to 12.50
FERNS, common	.20
" " per 1000	$1.50

88 Wabash Avenue, Rooms 22 & 23, CHICAGO, ILL.

Above prices subject to change without notice. All Flowers in season at lowest market rates. FLORISTS' SUPPLIES and WIRE WORK a specialty. On WIRE GOODS we can discount OUR OWN OR ANY OTHER LIST. Write for particulars. Store open week days until 6:30 P. M. Sundays and Holidays until noon only. Respectfully yours,

KENNICOTT BROS. COMPANY.

When writing mention American Florist.

..AZALEAS..



WE are now filling orders for Azaleas, importations of which have arrived in excellent condition. Import prices will hold good as long as the stock is not potted; the varieties we supply are the most popular sorts suited to the American market and we give you any proportion you wish in the four leaders—

Mme. Vander Cruyssen, Vervaeneana, Deutsche Perle, Bernhardt's Andrea Alba.

Personal inspection of the stock in Belgium, through our own representatives, enables us to offer the best stock obtainable at bottom prices.

Order now and save heavy express charges later on, as shipments can at this time be made safely by freight.

Fine Bush Crowns, well set with buds:

10 to 12 inches in diameter	$4.50	per doz.;	$35.00	per 100
12 to 14 " "	6.00	"	45.00	"
13 to 15 " "	7.50	"	55.00	"

SPECIMEN PLANTS of the leading varieties, $1.00, $2.00, $2.50 and $3.00 each, according to size.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA.

Mention American Florist when writing to advertisers.

SPECIAL NOTICE. - SOMETHING - READY AT ONCE.

YOU CAN GROW TO A PROFIT.

We offer two-year-old Crimson Rambler Roses in fine condition at $25 per hundred, and will send six as a sample carefully packed, for $2. These plants should sell at Easter for $3 each.

ROBERT CRAIG & SON, 49th & Market Sts., PHILADELPHIA.

Our Pastimes.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

H. F. A. LANGE, of Worcester, Mass., has gone to Maine upon his annual quest for moose.

Bowling at Detroit.

Heretofore the Detroit Florists' Club has had no regular evening for sport on the alleys but in the future will meet every Monday evening and by dint of practice hopes to organize a team capable of holding the Evans Challenge Cup when St. Louis brings it to the convention of 1899.

Chicago Bowling Notes.

George Stollery cannot be classed as a veteran bowler, but he belongs in the champion class nevertheless. At the last session of the bowling club he made the high average in a contest in which twenty players participated. Captain J. S. Wilson made the high score, 191.

At St. Louis.

During October J. J. Beneke bowled twenty-four games and made an average of 147½ with a high score of 216, thereby acquiring both medals which were in competition. His nearest competitors were C. Kuehn, who made an average of 144 in twenty-four games, and D. Finlayson, whose high score was 200.

New York Pastimes.

The bowlers met at the Fourth avenue alleys last Monday evening and had a royal good time. Some of the old war horses were there but the crowd was composed mainly of the younger element. They are beginning to steady down and scores improve with each meeting. On next Monday, November 14, the meeting will be held at 3 p. m. and as officers are to be elected and rules adopted it is expected that a very large crowd will be on hand.

Bowling at Philadelphia.

A match between the team that represented Philadelphia at Omaha and a team selected from among those who did not go was played last Monday evening. There was much fun and raillery during the progress of the game. The Omahas were ahead thirty-eight pins in the first game, twenty-one at the end of the second and at the finish were still thirteen pins ahead. Smith, who was low man at Omaha, being then under the weather, showed that he had fully recovered by making the best score of the match, 468 in the three games.

OMAHAS.

Name.	1st.	2d.	3d.	Total.
Habermehl	146	140	162	448
Smith	167	135	166	468
Longinotti	157	127	135	419
Westcott	176	144	131	451
Craig	125	98	119	342
Brown	111	142	129	382
	882	786	842	2510

LOCALS.

Connor	151	137	142	430
Walker	121	115	148	384
Anderson	140	144	149	433
Kift	126	156	169	451
Moss	145	143	110	378
Baker	161	98	132	391
	844	793	850	2497

Buist's New Mushroom Spawn FROM ENGLAND....



MADE SPECIALLY FOR US BY.... BARTER THE GREAT ENGLISH MUSHROOM SPECIALIST...

All the Large Mushroom Growers of Great Britain Use

BARTER'S ENGLISH SPAWN.

THE MOST SUCCESSFUL GROWERS OF THIS COUNTRY PREFER IT TO ALL OTHER BRANDS. Barter's great experience in its preparation will admit of no failure in crop if beds are in proper condition.

Price per 1,000 lbs. in Brick Form $65.00; 100 lbs. $7.00; 50 lbs. $3.50; 25 lbs. $2.00. Per Dozen Bricks $1.50. Sample Brick Mailed for 25 Cents.

ROBERT BUIST COMPANY, Philadelphia, Pa.

What John G. Gardner Says:

JOBSTOWN, N. J., NOV. 6, '98.

"GEORGE C. WASTON, Esq., Phila.

"DEAR SIR:—Please ship me another *1000* pounds of spawn from your next consignment. What you sent me in September is fully up to the usual high standard of your W P brand; it is *earlier in bearing* and *enormously prolific* and away ahead of any other brand I have ever tried in my *THIRTY YEARS'* experience in mushroom growing—and I have experimented with most all. W P is good enough for me. Yours very truly,

JOHN G. GARDNER."

The above letter is a sample of many which I am daily receiving from the principal mushroom growers all over the country, and is *convincing proof* of the superiority of my brand. Why should you pay fancy prices for inferior stock when you can buy this at the right figures. Write to me; no trouble to answer inquiries. My 24-page booklet on Mushroom Culture free to buyers or intending buyers—to others, 10c.

W.P. BRAND MUSHROOM SPAWN

G.C. WATSON

IMPORTER OF Bulbs for Florists, Fancy Grass Seeds, Field & Garden Seeds, Florists Flower Seeds.

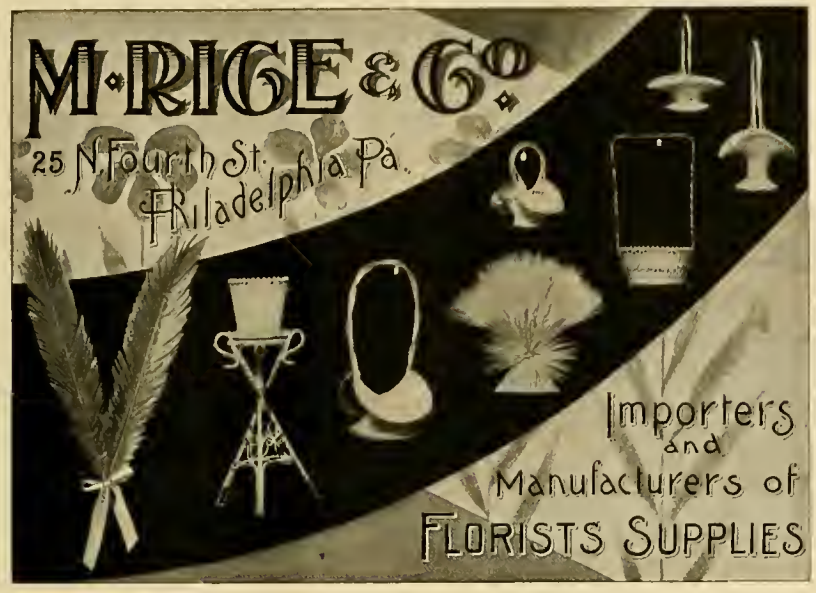
WHOLESALE SEEDSMAN AND COMMISSION MERCHANT

TRADE W.P. MARK

CLAY'S FERTILIZER, BIRD SEEDS.

Juniper and Walnut Streets,

PHILADELPHIA, PA. U.S.



IRON
PLANT STANDS.
CALDWELL'S
SOUTHERN GREENS.
CHENILLE.
DOVES.
PLATEAUS.
DISH
BASKETS.

Two points of interest to every florist—QUALITY—PRICE.

So for the Best Quality and Lowest Price this is the house. There are others, but none better. Your wants can best be supplied by placing your orders with us.

Immortelles All Colors. **Cape Flowers** All Colors.
Baskets All Kinds. **Cycas Leaves,**
Moss Wreaths, Metal Designs,
Pot Covers Enameled, Willow and Celluloid. **Pedestals,**

Wheat Sheaves Can't be beat **Artificial Flowers and Leaves,**
Wax Flowers, etc., etc.

In fact everything required by a first-class florist.
The finest Catalogue ever produced in our line—yours for the asking.
Send business card when writing for catalogue.
See note in *Florists' Review*, (Oct. 27th, page 574) article headed FLORIST SUPPLIES.

M. RICE & CO.

EXCLUSIVE IMPORTERS AND MANUFACTURERS OF
Florist Supplies.

25 N. 4TH ST., PHILADELPHIA, PA.

Achtung Florists!

WOLLEN sie nicht frische Blumen da kaufen, wo sie am billigsten und besten zu haben sind? Wenn sie mir ihre Orders geben, koennen sie versichert sein, dass sie das bekommen was sie haben wollen, und ausserdem zu dem richtigen Preise, da wir eine reichhaltige Auswahl in allem haben.

Ein Versuch wird sich bezahlen.

Thatsachen, nicht Versprechen ueberzeugen.

PRICE LIST.

	Per 100.
AM. BEAUTIES	$4.00 to $20.00
BRIDES	2.00 to 4.00
MAIDS	2.00 to 4.00
METEORS	2.00 to 4.00
PERLES	2.00 to 3.00
KAISERINS	2.00 to 4.00
CARNATIONS, fancy	1 50 to 2.00
CARNATIONS, common	1.00

	Per 100.
CHRYSANTHEMUMS	$8.00 to $20.00
VALLEY	4.00 to 5.00
VIOLETS	.75 to 1.00
ADIANTUM	.75
SMILAX	10.00 to 12.00
ASPARAGUS	per string, 50c.
FERNS	per 1000, $1

SUBJECT TO CHANGE WITHOUT NOTICE.

W. E. Lynch, 19=21 E. Randolph St., CHICAGO.

J. A. Budlong,

Wholesale Grower of ROSES and Dealer in CUT FLOWERS

'MUMS

We've all grades and extra select stock at moderate prices, and in any quantity.

ROSES

We are in better shape than ever to supply the very best Roses which the market affords.

CARNATIONS

We can fill rush orders for any popular variety with fine stock. Our growers are close at hand.

TRIAL ORDERS MAKE REGULAR CUSTOMERS
LET US SHOW YOU HOW WE DO IT.

J. A. BUDLONG, 37-39 Randolph Street, CHICAGO.

The Ever-Blooming NOVELTY **ACALYPHA SANDERI** **Can be had from**

JULIUS ROEHRS, Florist, **Rutherford, N. J.**

AND FROM EVERY POPULAR FLORIST IN AMERICA.

H. F. LITTLEFIELD, Worcester, Mass.

Dealer in Wire For Florists' Use.



EXCELSIOR CARNATION SUPPORTS,

Made of Galvanized Wire. Over 2,000,000 in use. A practical support that has stood a 10 year's test and sells better to-day than ever before.

SOUTHPORT, CONN., Aug 31, 1898.
Mr. H. F. Littlefield,
Dear Sir:—We have bought thus far about 25,000 of your Excelsior Carnation Supports and consider it one of the best yet introduced. We will want 5000 to 10,000 more this year. Very truly yours
EDW. J. TAYLOR.

PRICES.

Per 100	$1.00
" 1000	8 00
" 5000	37.50
" 10000	70.00

Lengths, 10, 13, 18 and 20 inches.

GALVANIZED STEEL WIRE ROSE STAKES.

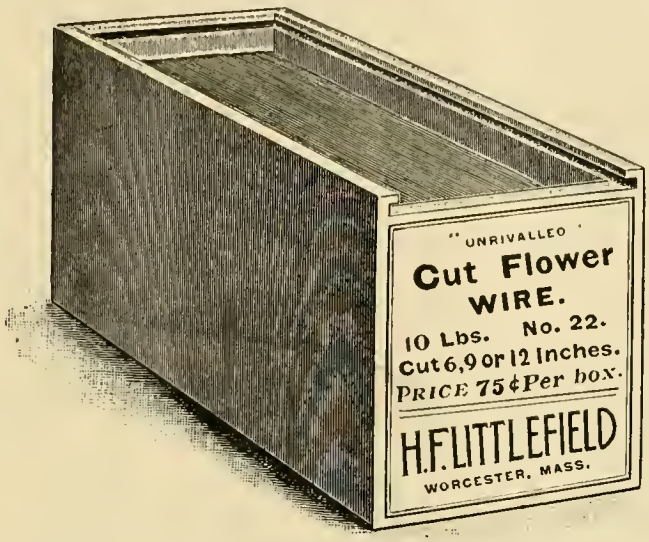
Inches long.	Per 100.	Per 1000.
14	$.50	$2.00
24	.75	5.00
30	.80	6.00
36	.85	7.00
42	.90	7.75
48	1.00	8.50
60	1.10	10.50

Special prices on large quantities. No. 18 Gal. Wire for running along the top of stakes, $1.00 per stone.

...STEMMING WIRE...

No. 20	Per stone, $.60	No. 25	Per stone, $.80
No. 21	" .60	No. 28	" 1.00
No. 22	" .65	No. 33	" 1.25
No. 23	" .70	No. 36	" 1.50
No. 24	" .75		

☞10 per cent discount in 10 stone lots.



UNRIVALLED CUT WIRE.

Put up in 10-lb. boxes, cut 6, 9 or 12 inches long and perfectly straight.

No. 20, 21 and 22, per box, 75c.

No. 24, per box, 90 cents.

10 per cent discount in 10 box lots.

PURE GROUND BONE.

$1.50 per 100. $30.00 per ton.

KRAFT'S PLANT TONIC

99% XX

It Kills the Harrisii Lily Mite — C. J. Stromback, of Lincoln Park, Chicago, says so.
It Kills Black and other Aphides — The Cornell University Experiment Station authorities, Ithaca, N. Y., say so.
It Kills Mealy Bug AND Prevents Carnation Rust — James Leake, gardener to B. Eldredge, Belvidere, Ill., says so.
It Kills Palm Scales — August Jurgens, Herendon St., Chicago, says so.

It kills all insect enemies of plants, prevents disease in all its varieties and imparts vigor to the growth without risk of injury to the most delicate forms of vegetation. This preparation is non-poisonous. We guarantee the above to be correct in every particular.

SEND FOR PRICE LIST AND DESCRIPTIVE CIRCULAR.

Kraft Plant Tonic Co., ROCKFORD, ILL.

Nashville, Tenn.

TRADE SHOWS CONSIDERABLE IMPROVEMENT AND BRIGHT PROSPECTS.—CHRYSANTHEMUMS AND ROSES.

While the floral business has shown more decided activity in the past few weeks, there is still room for improvement. The outlook, however, is very favorable. Prices are not anything extra and the supply of stock continues to be abundant. Chrysanthemums are in all their glory, but they seem to have lost caste. Large blooms which a year or so ago easily brought 25 cents or 30 cents apiece now sell at $1.50 per dozen.

Among the roses the American Beauty ranks all others, and on all swell occasions florists can scarcely supply the demand, while their ice boxes are running over with other beautiful roses. Currey & Co. are growing fine Meteors, and this is a popular favorite. The quality of roses is fine. Brides and Bridesmaids are very large and handsome. Perles seem to have dropped out entirely.

Joy & Son had a palm sale at half price on Saturday last. M. C. DORRIS.

Bloomington, Ill.

A treat, which is likely to be appreciated, is promised to the public by A. Washburn & Sons, who will give a chrysanthemum show at their store on Main street. Mrs. Robinson, Sunderbruch, Yellow Queen, Ivory and a host of others, will no doubt attract a deal of attention, as their chrysanthemums this season are exceptionally fine. Whatever experience others may have had with Belle Siebrecht, at the Washburn's establishment this pretty, though capricious rose is doing splendidly. What it lacks in stem it fully makes up in size, color and fragrance of bloom and, what is most in its favor, it takes with the customers. A. Washburn is now a resident of Bloomington, having recently moved to his handsome residence in the finest part of the city. The greenhouses, which are located outside of the city limits, are in charge of Frank Washburn.

HOMO.

TERRE HAUTE, IND.—Otto Heinl & Co. embark in business under most favorable auspices. They have some fine greenhouses, an uptown office at 33 N. Fifth street, a thorough knowledge of the trade and a wide acquaintance.

PLYMOUTH, MASS.—F. W. North, formerly of Worcester, has leased the greenhouse of E. F. Shaw on Summer street and will henceforth carry on the business at that location.

OWENSBORO, KY.—The annual chrysanthemum show, to be held in the Miller building, was postponed to November 16–18 on account of the lateness of the blooms.

WHEELING, W. VA.—L. A. Smith has opened a model flower store at 66 Twelfth street which he will conduct in connection with his greenhouses on the Island.

MARLBORO, MASS.—F. B. Gleason gave a free chrysanthemum show in G. A. R. hall on November 2 with marked success. Many people visited and admired the display.

CLARKSVILLE, TENN.—James Morton, proprietor of Evergreen Lodge, has been called to Waco, Texas, to judge the exhibits at the chrysanthemum show.

E. H. HUNT,

THE "OLD RELIABLE"
FOR WHOLESALE

CUT FLOWERS.

Hunt's Flowers Go Everywhere.....

A Full Line of all FLORISTS' NEEDS Always Carried in Stock.

76-78 Wabash Avenue, - CHICAGO.

Fit for the Wedding Of a QUEEN....



ORCHIDS in superb variety are being received daily and can be supplied in quantity at fair prices by.

MacDONALD & McMANUS,

530 West 30th Street, NEW YORK.

VIOLETS, ROSES, VALLEY, ETC.—Write us at any time when you need something no one else can get for you. Careful shipping.

TELEPHONE 2778-38.

BRILLIANT GREEN AND BRONZE
GALAX LEAVES.
CHAS. H. RICKSECKER,
MITCHELL CO., LINVILLE, N. C.

FLORISTS are LEARNING to SPEND their MONEY Carefully.
That accounts for the crowd every morning

AT **J. K. ALLEN'S.**

He has every grade of Cut Flowers from common to fancy and can suit all demands and all pocket books.
That accounts for the enormous daily sales

AT **J. K. ALLEN'S.**

Consignors get satisfactory returns, prompt returns and prompt payment for *all grades.*
That accounts for the vast amount of flowers shipped every day

TO **J. K. ALLEN.**

IF YOU ARE A GROWER,
IF YOU ARE A BUYER, **Here is your Market.**

COME AND SEE.

J. K. ALLEN, 57 West 28th Street, ...Telephone 382-3B. NEW YORK.

WIETOR BROS.

WHOLESALE GROWERS OF

Cut Flowers

Wholesale Price List.

		Per doz.
Am. Beauty, extra long stem		$3.50 to $4.00
" 24-in. stem		2.50
" 20 "		1.50 to 2.00
" 15 "		1.25 to 1.50
" 12 "		1.00
" 8 "		.75
Meteor	per 100,	$3.00 to $4.00
Bridesmaid	"	3.00 to 4.00
Bride	"	3.00 to 4.00
Kaiserin	"	3.00 to 4.00
Perle	"	2.00 to 3.00
Carnations	"	1.25 to 1.50
" fancy	"	2.00 to 3.00

All other stock at lowest market prices. No charge for packing.

We are Headquarters for

American Beauties

of which we cut from 2,000 to 3,000 daily. Our Brides, Meteors, Maids and Perles were never better.

OF CARNATIONS

We grow 50,000 plants of all the leading varieties, and they cannot be surpassed.

WIETOR BROS., 51 Wabash Ave., CHICAGO.

REGULAR SHIPPING ORDERS WILL RECEIVE SPECIAL ATTENTION.



Holly

ORDERS BOOKED NOW AT LOWEST POSSIBLE PRICES OBTAINABLE ANYWHERE.

Green

Mistletoe.....
Green Wreathing.

Cyclamen Plants

NOW READY FOR DELIVERY.

600, 3-inch pots	at	$ 8.00	per 100.
2000, 4 "	at	12.00	"
1000, 5 "	at	25.00	"
500, 6 "	at	50.00	"

The above plants are grown from the very choicest mixture of seed and are guaranteed first-class in every respect.
Shipped direct from the greenhouses.

WE ARE HEADQUARTERS For First-Class Cut Flower Stock of All Kinds.....
ALSO CARRY COMPLETE STOCK OF ALL SUPPLIES.

Vaughan, McKellar & Winterson
45-49 WABASH AVE.,
.....CHICAGO.

SEASONABLE

Bayersdorfer & Co.'s Illustrated Catalogue.

CONVINCING

A COMPLETE Guide and Reference Book for everything required in the daily necessities of a growing up-to-date Florist's business.

Send for it NOW and prepare for business.

We manufacture the best Sheaves in the world.

We are receiving now large shipments of Immortelles and other dried flower stock, direct.

Our selection of Baskets for Theatre and Debutante Gifts is very extensive and strictly up-to-date.

Our line of Jardinieres, Pans and fancy Receptacles for Ferns and Holiday Plants is worthy of attention.

A new feature—Fresh Southern Smilax constantly on hand.

H. BAYERSDORFER & CO.,

Manufacturers and Importers of
FLORISTS' SUPPLIES.

50=52=54=56 N. Fourth Street, PHILADELPHIA, PA.

CHRYSANTHEMUMS

ARE GOOD AT **PURDY & BLAUVELT'S**

We are headquarters for Perle, La France and other roses difficult to find in the general market. A full line of standard varieties in all grades, Carnations, Smilax, Lilies, etc. Send for quotations.

A Suggestion to Consignors Our aim is to find a buyer for every salable flower entrusted to us. VIOLET GROWERS, N. B.—We need more violets and can find a profitable market for the right kind. Call or write.

PURDY & BLAUVELT,

COMMISSION DEALERS IN CUT FLOWERS.

57 West 30th Street, NEW YORK.

...HIGH GRADE...

American Beauties--

This rose is our specialty. An order for one dozen or 1,000 is all the same to us; we have them all the time. We handle the product of several of the largest growers in this vicinity. All other roses in quantity and of finest quality. **Lily of the Valley, Orchids, Violets, Carnations, Etc.**

...OUR NEW COLD STORAGE PLANT...

Is in full operation and enables us to handle flowers in the best possible manner. No more crowding in ice boxes; plenty of room, insuring perfect blooms, and with our perfect method of packing and unsurpassed shipping facilities we are able to insure delivery of goods in the best possible condition

SAMUEL S. PENNOCK, 1612-14-16-18 Ludlow Street, PHILADELPHIA.

....LONG DISTANCE 'PHONE....

Pittsburg.

CHRYSANTHEMUM SHOWS AT CITY PARKS.—MRS. WILLIAMS GIVES AN EXHIBITION.

The conservatories at Schenley, Highland and Allegheny parks all have chrysanthemum shows at present. They are drawing large numbers of visitors and giving great satisfaction.

Mrs. A. E. Williams, 1733 Carson street, South Side, gave her annual chrysanthemum show the latter part of last week at her salesroom. All the leading varieties were shown, and in very artistic arrangement. In the development of the flowers and foliage the plants shown were easily the equal of the larger shows here. Among those especially fine were Mrs. H. Robinson, Maud Dean and Golden Gate. The plants were grown with from two to four blooms each. Mrs. Williams reports business good on her side of the city. REGIA.

Baltimore.

BRIGHT WEATHER BRINGS BETTER BUSINESS.—W. P. BINDER'S SEEDLINGS.—DEATH OF AUGUST AUER.

The bright weather has made trade somewhat better the past week and chrysanthemums and violets are in demand. The latter, however, are still scarce, though the quality is greatly improved. Other flowers are fairly abundant, roses, especially, coming in large quantities and in fine shape.

W. Paul Binder has this season put four new seedlings on the market, Willow Brook, white; Lady Harriet, bright pink; Robert Halliday, golden yellow, and Harry A. Parr, a delicate yellow. This latter variety was one included in an exhibit of six which won the cup offered by the A. C. S. at Philadelphia, October 15.

We regret to announce the death of August Auer, which took place at his home in Catonsville November 2.

A. R. J.

KALAMAZOO, MICH.—Van Bochove Bros. recently gave a chrysanthemum show at their greenhouses and had an orchestra to make it pleasant for the large number of admiring visitors.

SHIPPING LABELS FOR Cut Flowers

Size 4¾x6 inches, printed in red on gummed paper with leaf adopted by the S. A. F. Price with your card, 500, $2.85; 1000, $4.50. Samples free.

RECORD OF THIS LEAF, POSTPAID, $1.25.

American Florist Co., CHICAGO.

MÖLLER'S Deutsche Gärtner-Zeitung

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription $3.00 per annum, including postage. Sample copies free.

Ludwig Möller-Erfurt. (GERMANY)

Chrysanthemums BY THE Thousand.

are being shipped daily to

M. A. HART,

and they all find a market. Here are ROSES, CARNATIONS, VIOLETS, SMILAX, in quality to suit all wants and quantity to fill all demands. The best market in New York.

Telephone, 1307-38. 44 West 29th St., NEW YORK.

WESTERN PENNA. HEADQUARTERS FOR EXTRA FANCY STOCK.

Pittsburg Cut Flower Co.

LIMITED

705 Penn Avenue, PITTSBURG, PA.

Wholesale Florists.

CHOICE CHRYSANTHEMUMS.

WRITE FOR PRICE LIST. CONSIGNMENTS SOLICITED.



FANCY DAGGER

Hardy Ferns

WARRANTED FIRST QUALITY.

SPECIAL ATTENTION PAID TO SUPPLYING WHOLESALE DEALERS.

Write for Prices.

ALSO DEALER IN

BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES,

Etc., Etc., Etc.,

L. B. BRAGUE, - Hinsdale, Mass.

"Oldest, Largest and Most Reliable Dealer in the United States.

ESTABLISHED 1866 **EMIL STEFFENS** SUCC.TO N. STEFFENS. AND STEFFENS BROS.

MANUFACTURER OF

FLORISTS' WIRE DESIGNS & SUPPLIES

335 EAST 21ST ST. NEW YORK CITY.

NO ROOM

For inferior, badly grown or carelessly handled stock.....

CHRYSANTHEMUMS. NEWEST VARIETIES. EXHIBITION GRADE.

Exclusive stock in Fancy and Select

ROSES, CARNATIONS, VIOLETS, ORCHIDS,

from growers of established reputation, together with all other Seasonable Flowers in highest quality for discriminating customers can always be found here.

Thomas Young, Jr.

43 West 28th St., NEW YORK CITY.

NATHAN SMITH & SON

Adrian, Mich.,

CAN FURNISH 'MUMS EARLY, MID-SEASON AND LATE, ANY COLOR YOU DESIRE. NOVELTIES OR STANDARD SORTS.

CORRESPOND WITH THEM IF YOU WISH THE BEST.

Buffalo.

THE CONDITION OF STOCK.—GOOD ORDERS IN SIGHT.—FLOWER SHOW COMMITTEE PLEASED.—JOTTINGS IN THE TRADE.

Roses and chrysanthemums are good but carnations are inclined to be scarce, especially good flowers. Beauties are still good and find ready sale. Store windows now are beautiful, every one making a fine show. Thrall had a display of chrysanthemums Friday and Saturday which was fine; the flowers were of the best. The weddings and receptions announced for the next few days will make good business.

The committee on flower show is very much pleased with the results of its labors.

D. B. Long was out of town last week.

Fred. Stokes has gone to Pittsburg to manage the wholesale store of Mr. Kasting in that city.

Prof. Cowell informs us that work is progressing favorably on the new greenhouses at South Park. W.

Portland, Ore.

One of the attractions at the Portland Industrial Exposition was a magnificent group of palms, ferns, ficus, dracænas and araucarias, the work of L. G. Pfunder. Artistically arranged at each corner of the group was a handsome bouquet of long stemmed roses of different varieties made by Miss Rose Pfunder, who has the reputation of being the most expert designer of cut flowers in the northwest. W. G.

COUNCIL BLUFFS, IA.—J. F. Wilcox states that the Trans-Mississippi Exposition just closed helped his trade and that of every Omaha florist and that he believes that the fair was of incalculable benefit to the entire west.

LONG'S
STOCK.....
CATALOGUES.

FLORAL ART CATALGUE of Cut Flowers and Designs, 16 pages, 96 illustrations, priced. Sample copy **20c.** in stamps.

PALMS, HOUSE PLANTS and how to treat them. New, handsome and practical; 16 pages, 12 illustrations. Sample copy free.

DAN'L B. LONG, Publisher, BUFFALO, N. Y.

Circulation
which
Circulates

The actual paid circulation of the American Florist is, we believe, the largest in its class. The contents are of real present value and are preserved for reference. Advertisers who use regularly our columns establish permanent business with the best trade in the United States.

ESTABLISHED 1891.

ELECTED

By growers of highest standing to sell their product.

By trade buyers to supply their requirements in **Cut Flowers.**

NOW—Beauties, Brides, Maids, fine Carnations, Select Violets.

SOON—Romans, Lilies, and Holiday Specialties. Late Chrysanthemums, Bonnaffons, for December orders.

ALWAYS—Commanding a market for good stock. WRITE OR CALL. IT WILL PAY.

G. E. BRADSHAW,

Telephone 1615-38. 117 West 30th Street, NEW YORK.

Also Office of L. USSING, FOR EXCHANGE OR SALE OF GREENHOUSE PROPERTY.

Please Mention American Florist.

SOUTH PARK FLORAL CO.,

WM. DITTMANN, GROWER. **New Castle, Ind.**

CHICAGO, Nov. 9, 1898:

AM. BEAUTY, best 25 blooms.....1st
BRIDES, " 40 " 1st
MAIDS, " 40 " 2nd
KAISERIN, " 40 " 2nd
2 firsts and 2 seconds out of 4 entries.

INDIANAPOLIS, Nov. 8th:

2 firsts and 2 seconds out of 5 entries.

CHICAGO, Nov. 10th:

CARNATIONS, 2 firsts and 4 seconds out of 10 entries.

THEY SEEM TO BE GOOD GROWERS. WE HAVE OTHERS.

E. C. AMLING,

W. S. HEFFRON, Mgr. 51 Wabash Ave., CHICAGO.

HAND PICKED MUMS

Stock Plants of 'Mums, STRONG, HEALTHY, PROLIFIC.

1000 Frank Hardy, the finest and highest priced white in the New York cut flower market : 25c. each, $2.50 per 12, $20 per 100.

500 Major Bonnaffon - 3c.
500 Mrs. H. Robinson - 10c.
300 Golden Wedding - 3c.
125 Iora - - - - 8c.
25 W. Wright - 25c.
100 Miss Georgiana Bramhall 6c.
100 Silver Cloud - - 8c.
100 Minerva - - - 4c.
40 Ethel Addison - 10c.

Cash with order from unknown correspondents.

HARRY A. BUNYARD,

Plant Growers' and Manufacturers' Agent,

53 West 28th St., - - - NEW YORK CITY.

JACOB & ALLISON,
DIRECT RECEIVERS OF
CAPE FLOWERS,
Raffia, Cuban Bast, Cycas Leaves.
Write us for Samples and Prices.
No. 63 PINE ST., NEW YORK.

THE PRIDE OF THE MARKET.

MARVELOUS ADIANTUM CUNEATUM, 80 per cent profit for purchaser when used for cut fronds. Shipped over 3000 large sizes to well pleased buyers in one week. A trial order will convince you.

5-in., unequaled in size, $25.00 per 100; $240.00 per 1000
4-in., extra large plants, 12 00 per 100; 110 00 per 1000
3-in., good sized plants, 8 00 per 100; 75 00 per 1000
12 at 100 rates Terms cash.

ANDERSON & CHRISTENSEN, Short Hills, N. J.

How Does It Happen?

That the largest load of flower crates comes every morning to John I. Raynor's store?

That in the shipping season the biggest load of boxes starts every day from John I. Raynor's door?

That the same consignors stay year after year and never desert 49 West 28th Street?

The consignors know why. If you are a grower it will pay you to enquire why. Call and ask Mr. Raynor. Perhaps he can explain

All Florists now know that the place to procure American Beauty, Bride and Bridesmaid Roses, Carnations in fancy and standard varieties, Orchids, Lily of the Valley and Violets is at

JOHN I. RAYNOR'S

Wholesale Commission House. 49 West 28th St., NEW YORK.

Lay in your Before COLD WEATHER. **Heacock's Offer**

PALMS

ALL MEASUREMENTS GIVEN ARE FROM TOP OF POT, AND DON'T YOU FORGET IT.

ARECA LUTESCENS.

3 plants in	3-in. pot,	10 to 12 in. high		$20.00 per 100.
3 "	4 "	15 to 18 "		25.00 "
3 "	6 "	22 to 24 "		9.00 per doz.
3 "	6 "	24 to 26 "		12.00 "
3 "	12 "	5 to 6 ft. high, very bushy		$10.00 each.

A few bushy specimens, 14 in. pots, 7 to 8 ft. high 25.00 "

My stock of this variety is very large, grown cool, clean and very healthy, and cannot fail to give satisfaction. All are grown three plants in a pot.

COCOS WEDDELIANA.

2 x 3-in.	pot,	1 plant,	6 to 8 in. high		$10.00 per 100.
3 "	1 "	12 to 14 "			20.00 "
4 "	1 "	15 "			40.00 "
5 "	1 "	15 to 18 "		50c each.	6.00 per doz.
5 "	3 "	15 to 18 "		50c "	6.00 "

My stock of this beautiful variety is very large and in excellent condition.

KENTIA BELMOREANA.

3-in. pots,	4 to 5 leaves,	10 to 12 in.,	$3 per doz.,	$25 per 100			
4 "	5 to 6 "	15 to 18 "	6 "	50 "			
5 "	5 "	18 to 20 "	12 "				
6 "	6 "	18 to 20 "	15 "				
6 "	6 "	24 to 30 "	18 "				



LATANIA BORBONICA.

3-in.,	4 to 5 leaves,	12 to 15 in. high		10.00 per 100	
5 "	5 to 6 "	18 "	$5.00 per doz.	40.00 "	

I desire to thank my customers for past favors, and suggest that with increased facilities I am offering a larger **STOCK OF PALMS** and will be able to serve them better than ever before. My trade this season has exceeded my most sanguine expectations, and with *prosperity smiling on our country* I bespeak a share of their patronage in the future. The palms offered are all home grown, strong and healthy. **The measurements given are from the top of pot to the top of plant, in its natural position.** I am particular to mention this, as some growers include the pot in their measurements, in other words, **include the length of the roots** with the height of the plant.

TERMS: Unknown correspondents will please furnish satisfactory reference or cash with the order. All orders will be shipped by express, unless otherwise ordered.

JOSEPH HEACOCK, Wyncote, Pa.

Louisville.

NO CHRYSANTHEMUM SHOW IN KENTUCKY'S METROPOLIS THIS YEAR.—TRADE IS REPORTED GOOD.—JOTTINGS AMONG THE PLANT AND FLOWER MEN.

For the first time in years the patrons of chrysanthemum shows, accustomed to look forward to this annual treat, will be disappointed. There will be no show this season, the reason being a lack of financial support to warrant the undertaking. Chrysanthemums, however, are by no means conspicuous by their absence. In common parlance, "the woods are full of them," both the stores and the greenhouse men showing some well grown varieties, which, as usual, find ready sale.

Fred. Haupt has recently added a handsome conservatory to his large floral store and has made many other improvements about his place. With his collection of specimen palms and plants he can now execute the largest decoration orders at the shortest notice. Trade in this line has been quite brisk with him.

Jacob Schultz's recent addition to his greenhouse establishment, mention of which has been made, fully harmonizes with his entire splendidly equipped place. His general stock, as usual, is up to the standard and in many respects above the average at this season of the year. Mr. Schultz will be the judge at the Evansville chrysanthemum show.

Those Beauties of C. W. Reimer's are the "talk of the town," and to the credit of his customers be it said that they know a good thing when they see it. The The daily cut is invariably sold, not a flower going to waste.

Joseph Coenen & Co. have put the last finishing touches on their new houses, being now well equipped to take care of their wholesale trade, which they report is increasing. Roses, carnations and bulbous stock are grown successfully in their establishment.

E. Reimers is quite sanguine as to the outlook and has accordingly made ample preparations to meet the growing demand. His stock of young palms looks fine and thrifty; so do his roses and carnations.

Wm. Mann is in the very front rank with his chrysanthemums this year, both his pot plants and those in the benches being of the first grade. Mr. Mann is a successful all around grower.

Geo. Schultz, is as busy as the proverbial bee. This has been an unusually busy fall with him. Among other things he is kept busy at landscape gardening, having the grounds of one of the stateliest mansions in the city to put in tip top shape.

Wood & Stubbs have every reason to feel gratified with the results in the short time they have been in business. HOMO.

IF YOU

or your neighbor have any reason to wish a change in the manner in which you are listed in our 1898 Directory, drop us a postal card now, to aid us in the work of revision for the next issue.

THE AMERICAN FLORIST CO.
.....324 Dearborn St., Chicago

Buy of the New Man.

When a man puts in a full new line of Florists' Supplies, as I have done, he is apt to make the prices very low at the start. He has to do it to get business.

Then Watch Him.

He is sure to make the values right to get a second order. Watch him to see that he keeps his values up and his prices down.

I am Willing to be Watched.

My methods, my line of Florists' Supplies and my prices will not fail to stand the test.

REMEMBER US ON HOLLY, GREEN AND MISTLETOE FOR CHRISTMAS.

My Cut Flowers are right in quality and price. Favor me with your Thanksgiving order.

A. L. Randall, 4 E. Washington St. CHICAGO.

Illinois Cut Flower Co.

J. B. DEAMUD.

51-53 Wabash Ave., CHICAGO.

Headquarters for

Chicago's Choicest Chrysanthemums.

and all other stock.

PALM Seed. FRESH ON HAND

	100	1000	3000
Kentia Belmoreana.....	$1.00	$6.50	$15.00
" Forsteriana.....	1.00	6.50	15.00

J. L. SCHILLER, 404 East 34th St., NEW YORK CITY.

Readers of the American Florist are liberal buyers.

KENTIA SEEDS

Gathered by our own collector. The most superior Kentia Seeds in the market. Our next consignment is due October 18th.

KENTIA BELMOREANA, per 1000, 12S
" FORSTERIANA, " 12S

We shall be pleased to quote special prices for large quantities f. o. b. New York.....

HOMER PRICE & CO.
14 Castle St., Long Acre, LONDON, W. C.



LARGEST GREENHOUSES IN AMERICA, 600,000 FEET OF GLASS.

Wholesale Growers of

ROSES AND CARNATIONS

We are now cutting from

50,000 AMERICAN BEAUTIES.

Stock is never scarce with us. We make prompt shipment and can always send good flowers.

WHOLESALE PRICE LIST Nov 12.

		Per doz.
AM. BEAUTY, extra long stem		$3.50 to $4.00
" 24-in. stem.		2.50
" 20 "		1.50 to 2.00
" 15 "		1.25 to 1.50
" 12 "		1.00
" 8 "		.75
METEOR	per 100,	$3 00 to $4.00
BRIDESMAID	"	3.00 to 4.00
BRIDE	"	3.00 to 4.00
KAISERIN	"	3.00 to 4.00
PERLE	"	2.00 to 3.00
CARNATIONS	"	1.25 to 1.50
" fancy	"	2.00 to 3.00

All other stock at lowest market prices. No charge for packing.

Reinberg Bros. 51 Wabash Ave., CHICAGO.

E. G. HILL & CO., RICHMOND, IND.

All the new Chrysanthemums from France including Calvat's celebrated novelties: **Fee du Champsaur**, the new white; **M. B. Verlot**, fine pink, globular in form; **Lucy Faure**, a prize winner in France, and twenty other new varieties. These will be ready early in February in nice young plants. Look for January list for prices.

GERANIUMS Now ready for shipment, all the very finest geraniums extant. Splendid novelties in the Bruant type, English round flowered and the Corrounne section.

CANNAS:::::: An immense stock; thousands of the new Dammann type. For sale in large lots very cheap, so cheap that catalogue men cannot do better than get quotations on these by 100, 1,000 or 10,000. Also quantities of the old standard sorts in quantity and price that will suit all buyers. The new Crozy type in all the newer varieties at prices to suit any one. Here are some of the varieties: President McKinley, President Cleveland, Robt. Christie, Gloriosa, Mrs. John Laing, Dutchess of Marlboro, and others.

SOME OTHER GOOD THINGS:

ASPARAGUS SPRENGERII, 2½ in., strong, $5.00 per 100.
ASPARAGUS PLUMOSUS, 3 in. pots, strong, $6.00 per 100.
BOSTON FERN, Magnificent, 4 in. pot plants, $12.00 per 100.
BOSTON FERN, Magnificent, 3 in. pot plants, $8.00 per 100.

ROSES..... of all kinds in immense quantity. Send and get quotations on what you may be needing in this line before ordering. A few thousand bench grown roses suitable for spring sales at the low price of $5.00 per 100; $40.00 per 1,000.

E. G. HILL & CO.,

RICHMOND, IND.

Helpful Reminders.

At this season most greenhouses are receiving plants by freight or express that come packed without pots. The balls are tightly pressed and require careful treatment; this is particularly true of azaleas. A plant that is inclined to make a strong growth at once will send out a few roots into new soil if it gets half a chance and, once started in the new soil, all danger is over. But azaleas and some other plants are at a standstill period now and what the plant requires must be given to the roots; they will not stretch out for it. The compressed ball plunged into light soil in a pot, will allow the water to run through and not penetrate the ball at all. It is best to soak the balls half a day in a tub of water, and when you pot them make the soil firm around the ball. Many palms also suffer from careless potting.

Shrubbery that is desired for Easter bloom and which has been kept in pots this season is best cared for by taking them out of their pots and placing them close together on the ground floor of a cold house or frame, piling about three tiers high. They should be fairly moist when piled up. Cover quite thickly with a non-conductor, as leaves or straw. There is still time to get nice plants of adlumia established if started at once. One of the most valuable plants a florist can have is the jasmine, which gives a few long sprays of its sweet scented flowers daily, but perhaps the most useful flower, excepting roses and carnations, is the bouvardia. Bench it as you would roses but in soil a trifle lighter. It requires care in watering or red spider will be numerous. It is safest on this account in open beds, but the crop through the winter will not be quite as large as on a well managed raised bench.

C. B. W.

SPECIAL OFFER

Gloire de Lorraine

....BEGONIA....

The grandest Novelty of the day and one of the best selling plants for Florists ever offered. Blooms continuously, autumn, winter and spring. Flowers beautiful clear pink. Plants present a mass of floral loveliness for months.

Fine strong plants from 4-in. pots, per doz, *$7 50;* per 100, *$55.00* Flowering plants, from 2½-in. pots, per doz, *$4 75;* per 100, *$35.00. Now ready*

R. & J. FARQUHAR & CO.,
16 and 19 South Market St., BOSTON.

Orchids!

CATTLEYA MENDELII arrived in superb condition. Write for prices at once. Only a limited quantity left.

LAGER & HURRELL, SUMMIT, N. J.

CARNATIONS.

All the new and leading varieties. Contracts for rooted cuttings made now. Send for prices, stating what you want.

GEO. HANCOCK & SON, Grand Haven, Mich.

ROSES FOR EASTER

We have a splendid stock of the following 2-year dormant Roses for Easter forcing.

Crimson Rambler, Magna Charta, Yellow Rambler, Paul Neyron, Ulrich Brunner.

Price, 8.00 and $10.00 per 100, according to size.

Clothilde Soupert and Mosella, strong plants, $8.00 per 100.

Order now... ROBERT SCOTT & SON,
PENROSE NURSERIES, SHARON HILL, Del. Co., PA.

CHRYSANTHEMUMS.

EXTRA STRONG STOCK PLANTS OF THE FOLLOWING:

Alice F. Carey, Black Hawk, Frank Hardy, Miss G. Vanderbilt, Mrs. H. Weeks, Robt. G. Carey, Spotswood, W. H. Chadwick, at 50 cents each, $5.00 per dozen, net for cash.

Belle of Castlewood, Elvena, Evangeline, Glory of Pacific, Henry Hurrell, John Shrimpton, Liberty, Mayflower, Maud Dean, Bonnaffon, Midge, Mrs. H. Robinson, Mrs. Jerome Jones, Miss H. Wright, Nemesis, Pink Ivory, Symphonia, Yellow Monarch, Yellow Queen, at $3.00 per dozen, net for cash.

JOHN N. MAY, Summit, N. J.

FIELD-GROWN CARNATIONS

Ready Now.

SCOTT and McGOWAN at.....$5.50 per 100
GENESEE.....12.00 "
RUBBER PLANTS, Ficus Elastica, 5-inch, at.....$5.00 per doz.
ASPARAGUS SPRENGERII 6.00 per 100
PRIMROSES..... 4.00 "
SMILAX..... 2.00 "
HYDRANGEAS, field-grown....30.00 "
VINCA variegated..... 5.00 "

WM. F. KASTING
BUFFALO, N. Y.
Please mention American Florist.

CROTONS In Excellent Variety.

Send for list of sizes, varieties and prices.

If you feel disposed to try a sample dozen in as many varieties, in 6-in. pots, you may with confidence forward the necessary $9.00 for same by either check or P. O. money order and satisfaction will be guaranteed.

EDWIN LONSDALE,
Money order office, Sta. H, Philadelphia.
Chestnut Hill, PHILADELPHIA.

FERNS! ⚜ FERNS!

The following Ferns, TO CLOSE, at $2.00 per 100; $15.00 per 1000. All 2-inch, strong:

Pteris Tremula
" Serrulata
" Serrulata Cristata
" Longifolia
Pteris Ensifolia
Adiantum Cuneatum
" Williamsii
" Pubescens

E. HIPPARD, - Youngstown, Ohio.

ROBT. CRAIG & SON
Roses, Palms
and Novelties in Decorative Plants.
Market and 49th Street, PHILADELPHIA PA.

When writing mention the American Florist.

Surplus, Field-Grown CARNATIONS

Clean, healthy, strong plants with plenty of roots.

White Cloud, white.
John Young, white.
Mary Wood, white.
Storm King, white.
New York, pink.
Pain'ed Lady, pink.
Mrs. C. H. Duhme, pink
C. A. Dana, pink.
Dazzle, scarlet.
Jubilee, scarlet.
Gold Nugget, yellow.
Psyche, variegated.
Lily Dean, variegated.
Meteor, crimson.

Send for Price List.

FRED. DORNER & SONS CO.
FA YETTE, IND.

Carnations! FIELD-GROWN.

All sold except 500 Lizzie McGowan
500 Wm. Scott 100 Morello and
300 Emily Pierson 100 Goldfinch

If there is anything here you want, write me and get some low prices on this lot. Address

Chas. Chadwick, Lock Box H, Grand Rapids, Mich.
Mention the American Florist.

STOCK PLANTS of Earliest of all 'MUMS that make a good flower.

Cut Sept. 20th. Last year Sept. 17th.

LADY FITZWYGRAM, $1 00 per doz.

Cash with order, please.

FRED. BURKI, Bellevue, Pa.

FOR SALE.

4000 Scott Carnations, $3.00 per 100. $25.00 per 1000.

Stock is perfectly free from rust and disease. Cash must accompany order.

CHARLES SCHAFER,
220 Balmoral Ave., Station X, - - CHICAGO.

CARNATIONS H. WEBER & SONS,
Oakland, - Md.

ESTABLISHED 1857. WHOLESALE.... 'PHONE, LAKE VIEW 136.

GEO. WITTBOLD,

GROWER AND IMPORTER OF.....

Tropical Plants.

Largest Stock of Tropical Plants in the West.

Office and Salesroom, 1708 No. Halsted St., CHICAGO.

PRICE LIST...

PALMS.

Varieties.	Measurements, top of pot to top of tallest leaf.	Size Pot.	Height Inches.	Character Leaves.	Prices. Each.	Doz.
ARECA LUTESCENS		5-inch	22-26	6-10	$.50	$5.00
" "		6 "	24-28	8-10	.75	9.00
" "		8 "	40-50	15-20	2.50	30.00
COCOS WEDDELIANA		3 "	10-14	4-6	.25	2.50
KENTIA BELMOREANA		6 "	24-26	5-7	1.50	18.00
" "		8 "	36-40	4-6	2.50	30.00
" FORSTERIANA		6 "	32-36	3-5	1.25	15.00
LATANIA BORBONICA		4 "	14-16	2-3	.25	3.00
" "		6 "	20-24	5-6	.75	9.00
" "		8 "	24-30	5-6	1.50	18.00
" "		9 "	34-36	7-8	2.50	30.00
PHŒNIX RECLINATA		5 "	18-20	4-5	.50	5.00
" CANARIENSIS		6 "	22-26	5-6	.75	9.00
" "		7 "	26-30	8-10	1.00	12.00

If in need of large specimens of Latania Borbonica, Corypha, Areca Lutescens, Pandanus Utilis or Veitchii, etc., write us for sizes and prices.

MISCELLANEOUS.

		Each.	Doz.
ARAUCARIA EXCELSA from 6-in. pots, perfect plants		$1.50	$18.00
" " " 7 " " "		2.00	24.00
" " " 8 " " "		3.50	40.00
ASPARAGUS SPRENGERII,	4 " nice plants	.20	2.00
" "	5 " "	.25	3.00
" "	6 " "	.50	6.00
" PLUMOSUS NANUS	2 " "	$5 per 100	
" " "	3 " "		1.00
" " "	4 " "		1.50

MISCELLANEOUS.

	Each	Doz.
DRACÆNA FRAGRANS, strong plants from 5-in. pots	.50	5.00
PANDANUS UTILIS " " 5 "	.50	5.00
" VEITCHII " " 7 "	2.00	24.00
PEPEROMIA WERSHEFFELTII " " 3 "		1.00
" " " " 4 "		1.50
SANSEVIERA JAVANICA VARIEGATA 3 "		1.25
CYPERUS ALTERNIFOLIUS, strong plants, 4 "		1.00
" " 5 "		1.50
SELAGINELLA EMILIANA, nice plant from 4 "		1.50
" MARTENSII " " 4 "		1.50

FERNS.

Varieties.	Size Pot.	Price Doz.	Hun.
ADIANTUM CUNEATUM	2-inch	$.50	$4.00
" "	3 "	1.00	8.00
" "	5 "	2.00	16.00
CYRTOMIUM FALCATUM	3 "	1.00	8.00
LOMARIA GIBBA	3 "	1.00	8.00
" "	4 "	1.50	12.00
NEPHROLEPIS PECTINATA	4 "	1.50	12.00
" "	6 "	3.00	25.00
" EXALTATA	4 "	1.50	12.00
" "	5 "	2.00	16.00
" BOSTONIENSIS	10-in., $2.50 each	30.00	
" PHILIPENSIS	4 "	1.50	12.00
PTERIS UMBROSA	2 "	.50	4.00
" SERRULATA	2 "	.50	4.00

SOIL.—Pine Needle Soil, large barrel, $1.50 each.

WREATHING.—We keep in stock Wreathing made both from Cedar and Lycopodium and are offering same at $4.00 per 100 yards.

GEO. WITTBOLD, 1708 North Halsted Street, CHICAGO.

CHRYSANTHEMUMS!

We carry a large and extra fine stock of all the leading sorts as well as late novelties. In quality stock was never better, and prices very reasonable.

Choice Roses,
Fancy Carnations,
Violets, Valley, ETC.

S. B. WINTER

21 Randolph St., CHICAGO.

Detroit.

GOOD BUSINESS.—FINE CHRYSANTHEMUMS.—A NEW GROWERS' SUCCESS.—INTERESTING CLUB MEETINGS.—A VISIT TO MT. CLEMENS GROWERS.

Business has been very good for the past week and our chrysanthemum growers are bringing in some very fine flowers, Holznagel's Mrs. Robinson and Rackham's Mrs. Whilldin and White and Pink Ivory being particularly good. At the last meeting of the Florists' Club J. K. Stock, a new grower, brought specimens of Mayflower, Georgiana Pitcher and Viviand-Morel which were greatly admired. The club meetings are being made very interesting by the free use of the question box, which elicits discussions which are of real, practical value.

The first pleasure trip of the Detroit Florists' Club was to Mt. Clemens at the invitation of Philip Breitmeyer. About a score of the members accepted and spent a most enjoyable day at the establishment of John Breitmeyer & Sons. The hosts spread a bountiful repast accompanied by very fine home-made wine. Most of the visitors were surprised at the extent of their establishment. They have sixty-two acres under cultivation, raising fruit of many kinds and very excellent, particularly the grapes. They have 150,000 feet of glass, and have four large houses of American Beauties which promise a splendid crop for Christmas. This is the home of the Pingree carnation and it is grown in large quantities. They have a new one called Cerise which is an improvement on Tidal Wave. It is a good seller in Detroit. They have still another new one, a bright scarlet, which our party judged to be the best thing in its color we had ever seen. The Breitmeyers' chrysanthemums are in splendid shape, their Glory of Pacific being better grown than any we had ever encountered. They also grow violets well and in quantity.

Our party also visited Mrs. Robert Klagg and her model establishment. She has two houses of violets in splendid condition and her cyclamen are grown to perfection. Her carnations are also well worth seeing. At John E. Carey's we found one of the finest places in Michigan. Mr. Carey grows roses, carnations, violets and chrysanthemums as they should be grown.

Fred. Breitmeyer entertained the Detroit party at the Hotel Monro in the evening and the finish was full of fun. The Detroiters presented John Breitmeyer with a silver wine cup inscribed with his name and in German, "We hope to meet again." George A. Rackham made an eloquent speech in presenting this token of regard. R. F.

OUR WELL KNOWN SPECIALTIES.

1500 Rubber Trees, perfect in growth and foliage, 5½-inch $5, 6 inch $7, 8-inch $11 per dozen. 100 at 7 dozen rates.

Latania Borbonica seedlings, low and strong, $3 per 100; $25 per 1000.

25 000 extra well grown Ferns for dishes, $3 per 100; $25 per 1000.

Sword Ferns, Nephrolepis Exaltata, strong, 4½-inch, $10, 5-in., $20 per 100.

65,000 Palms, Dracænas Pandanus, etc. Send for price list. Medal awarded World's Fair, 1893, on Palms.

☞We sell for cash only, but allow inspection at express office before accepting.

ALBERT FUCHS.

26 model greenhouses at 2059-73 N Halsted St., CHICAGO, ILL.

10,000 1 rgl. 'Mums ready at low cash prices. A few steady customers wanted for roses and carnations.

CYCLAMEN

GIGANTEUM SEED.

New crop in best mixture. The finest strain of Giant flowering varieties grown. Be sure to sow. Per trade pkt., 200 seeds, $1; half pkt., 50c. Strictly cash.

JOHN F. RUPP, Shiremanstown, Pa.

Say: "Saw it in the FLORIST."



VERBENA KING

Is still in the ring And will have a million cuttings ready between now and next spring.

We will have 'em, as I have added two more cutting houses and will go into the rooted cutting growing very extensively, over 50 of the latest and best mammoth named vars. of Verbenas in cultivation, free from rust and mildew. REMEMBER, we guarantee satisfaction and safe arrival to all parts of U. S. and Canada. Verbenas, R. C., 60c per 100, $5.50 per 1000, 5000 for $25.00, 10,000 for $45.00, 25,000 for $100.00.

ROOTED PETUNIAS, double, again Dreer's and Henderson's latest strains. Surely these are world beaters, at $1.25 per 100, $10 per 1000.

HELIOTROPES, 10 best named vars., $1 00 per 100, $8.00 per 1000.

COLEUS, rooted cuttings, 40 of the latest and best named vars. They are fine, at 70c per 100, $6 00 per 1000. Special prices on large lots.

☞Remember, we prepay mail or express charges on all rooted cuttings.

Verbenas and Petunias ready Dec. 1st.

C. HUMFELD, Clay Center, Kans.

PLANTS FOR DECORATORS.

The season for plant decorations is at hand and any of these will be a useful addition to stock, being bright, fine colored elegant specimens. Packed in pots, by freight, if desired.

	per dozen
ARECA LUTESCENS, 8-in. pots, 4 to 5 ft...	$18.00 to $24.00
ARECA LUTESCENS, 6-in. pots, 3 to 4 ft..	12 00
OREODOXIA REGIA, light graceful, 5 to 6 feet	18.00
NEPHROLEPIS BOSTONIENSIS, 8-in. pans, 3 to 4 ft. over	18 00
ADIANTUM TENERUM, 8-in. pans	9.00

CASH WITH ORDER.

JOHN H. LEY,

Good Hope, - - Washington, D. C.

PANSY PLANTS

Pansy Plants cheaper than you can buy the seed, of the finest strains in the world. We mean what we say at the following low prices for A1 stock: $1.50 per 500, $3.00 per 1000, $12.00 per 5000, $20.00 per 10,000, $35.00 per 20,000, $75.00 per 50,000.

The Morris Floral Co.,

MORRIS, ILL.

PANSIES

Roemer's Superb Prize Pansies.

Seed and Seedlings sold out. Large Plants for early winter blooming ready now.

$1.00 per 100. Cash with Order.

PETER BROWN, Lancaster, Pa.

PANSY PLANTS

Per 100, 50c.: per 1000, $2.50.

FERNS, 300 assorted.....per 100, $2.50

CASH PLEASE.

JOS. H. CUNNINGHAM, Delaware, O.

Do not hide your light under a bushel. Tell the people what you have for sale.

THE AUTUMNAL MUSE.

OUR DEAR FRIEND.

BY WM. K. HARRIS.

The Soldier gives his life-blood, our country to save;
The Preacher gives us bliss beyond the grave;
The Doctor, to relieve our pains, responds to every call;
But "Money" is our dearest friend of all.

My Stock has Grown Very Corpulent.

Its growth has consumed my purse to a mere skeleton; and as I badly need my "dear friend" I will offer for the wanderer's return the following stock at 25% less than my usual price, for this month, November, only:

There are many dealers and growers in the trade that have but little idea of the beauty of the Rubber (**Ficus Elastica**) as it is grown by me. Having a large and fine stock of the most perfect developed specimens, I offer for a short time an opportunity for all to obtain at least a sample of how a Rubber should be grown.

Tree Rubbers, 5 to 6 branches 6 feet high worth $7.50 at $5.50. Same 4 feet high in 10-inch pots worth $5.00 at $3.50. Same 3 feet high in 10-inch pots worth $4.00 at $2.50.

Tree Rubbers in 8-inch pots, 4 to 5 branches, worth $2.00 at $1.50.

Straight Rubbers 5 feet high in 8-inch pots worth $2.00 at $1.50. Same 4 feet high in 7-inch pots worth $1.50 at $1.00.

WM. K. HARRIS,

55th St. and Springfield Ave. - PHILADELPHIA, PA.

CALADIUMS

Caladiums, Tuberoses, Cape Jasmines, ARBOR VITAE, American, Pyramidel Calam, Chinese, Cigantea, etc.

Fine plants cheap. Can furnish all native plants. Send for price lists to

JAMES M. LAMB, FAYETTVILLE, N. C.

SMILAX.

300 nice plants from 3-in. pots. Will close out the lot at $1.50 per 100.

W. P. RANSON,

Junction City, Kans.

Pansies Worth Raising.

The finest **SEED,** as usual, $1.00 per package, 3-16 ounce.

No more PLANTS before December 1, except transplanted, blooming stock, $10 per 1000 f. o. b. Express. ☞CASH WITH ORDER.

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

John! THE PANSY MAN

FRESH '98 SEED.

J. B.'s challenge is all that the word implies. Try it. Trade packet $1.00 cash.

JOHN BEIMFORD, WILTON JUNCTION, IOWA.

Mention American Florist.

THE JENNINGS STRAIN **PANSIES.** SEED. PLANTS.

Finest mixed. Good little plants for cold frames, $1 00 per 1000, express.

Seed, $1.00 per pkg, $5 00 per ounce.

E. B. JENNINGS, L. B. 254, **Southport, Conn.**

Grower of the Finest Pansies.

Smilax EXTRA FINE, 12½ cts. per string. ANY QUANTITY.

A. J. BALDWIN, Newark, O.

Tell them where you saw the ad.

W. F. Sheridan's

Salesrooms at 39 West 28th St., New York, are frequented every day by buyers who know where to find select stock. . . . The best Beauty and Violet growers send their product here

Just a Reminder

AS THE SEASON OPENS.

You can consign your flowers here and they will be sold to best advantage: : : : : : : : Open early and late and Sunday forenoons

JULIUS LANG,

53 W. 30th St., New York.

TELEPHONE 913—38.

JAMES M. KING,

Commission Dealer in

Cut Flowers

VIOLETS AND HIGH GRADE CARNATIONS:::::::

A SPECIALTY.

49 West 29th Street
New York.

CONSIGNMENTS SOLICITED.
TELEPHONE 1675—38.

On Deck Before Daylight

At the Great Cut Flower Market.

FRANK MILLANG

Does a whole day's business every morning before other wholesale places are open.

A big crowd of Early Rising Buyers and consignments quickly cleaned up. Try it.

All flowers at daily market rates.

408 E. 34th St., New York.

New Orleans.

A STRONG DEMAND FOR FLOWERS FINDS STOCK SCARCE AND HIGH PRICED.—NORTHERN FLOWERS OF LITTLE USE.—NO EXHIBITION THIS YEAR.

The first of November, or All Saints' Day, has always been a great flower day for New Orleans, as this is the day par-excellence that we all remember our dead ones and bring flowers to their graves. Flowers have been very scarce this year and prices have been high. A month ago we had a long heavy rain which killed many of our large chrysanthemums. Then came on unusually cold weather. Very seldom in former years has white frost occurred here before November. This year we had several cold snaps in the latter part of October.

The little pompon chrysanthemum, which is extensively grown and forms the largest part of the designs, did not open at all for All Saints' Day and the poor people who cannot afford fancy or costly flowers had to do without. Prices in the north are too high for us to handle shipped in flowers in great quantities, and besides, northern flowers are so delicate that they do not stand to be exposed outside for any length of time. Carnations alone are used with good advantage.

No chrysanthemum show will be held this year in our city and a spring show has not yet been decided upon.

M. M. L.

RUBBERS!

A fine lot of Ficus Elastica, 7-in. pots, 20 in. high, quality guaranteed. Per dozen.....$9.00

BEGONIAS, Alba Picta, Dewdrop, Wettsteini, A. Guttata, Pictonense, 3-inch, $3.00 per 100.

BOSTON FERN, $5.00 per 100.

CYPERUS ALTERNIFOLIUS, 3-in. extra fine, $3.00 per 100; 2-in., extra fine, $2.00 per 100.

ROSE GERANIUMS (large leaved), Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

CASH WITH ORDER.

GEO. L. MILLER, Newark, Ohio.

Some Bargains....

Am Short of Room.

CARNATIONS 400 Wm. Scott, 1000 McGowan. Good plants now in frames. $25 takes the lot. Cash with order.

CANNAS Immense field grown clumps to 20 best sorts. Very fine, 50c each.

PANDANUS Several fine plants in 10 and 12 inch pots. Very low to make room. Address

E. I. BRADLEY, FLORIST, MURPHYSBORO, ILL.

TO THE CATALOGUE TRADE.

10,000 Clumps CANNAS, leading varieties.
5,000 SPIRÆA Anthony Waterer, 1 and 2 year.
5,000 Logan Berry, Strawberry, Raspberry and Golden Mayberry.
5,000 AMPELOPSIS VEITCHII. Write for special prices.
5,000 **VIOLETS,** Lady Hume Campbell, clumps $5 per 100; in pots $3 per 100; California, clumps $3 per 100; Luxonne, clumps $4 per 100.

BENJ. CONNELL, Florist, West Grove, Pa.
Please Mention the American Florist.

THE BOSTON FERN From $5 per 100 and $40 per 1000 to $1 each.
A SPECIALTY. **L. H. FOSTER,**
45 King Street, DORCHESTER, MASS.

Do the American Florist a small favor Mention the paper when writing advertisers.

ROSE HILL NURSERIES

JUST ARRIVED

DRACÆNA CANES

In Grand condition of the following varieties:

Braziliensis, Baptisti, Fragrans, Gladstonei, Metallica, Massangeana, Sheppardi, Titsworthii, Regina.

SIEBRECHT & SON, New Rochelle, N. Y.

AZALEAS.

First consignment arrived in perfect condition. Can ship immediately

9-10-inch.....$30.00 per 100
10-12-inch.....35.00 per 100
12-14-inch.....45.00 per 100
14-16-inch.....60.00 per 100
All well furnished with buds.

LEADING SORTS: Apollo, A. Borsig, Bern, Andrea Alba, Deutsche Perle, Empress Brazil, Mme. Van der Cruyzen, Simon Madner, Vervaeneana, Etc.

HIRAM. T. JONES, UNION COUNTY NURSERIES, **Elizabeth, N. J.**

Acalypha Sanderi,

Each, $1.00; Dozen, $9.00.
VAUGHAN'S SEED STORE, 14 Barclay Street, NEW YORK.
VAUGHAN'S GREENHOUSES, WESTERN SPRINGS, ILL.
WRITE TO NEAREST ADDRESS.

THE GREAT DECORATIVE PLANT NOVELTY.

LOWEST PRICES ON BULBS, BUT CASH!

Send in your wants for quotation, no price list issued.

J. L. SCHILLER, 404 East 34th St., NEW YORK.

Surplus Bulb Bargains.

Per 100.

Dutch hyacinths, 1st size to color $3 50 net cash
Narcissus in cho cest sorts ... 1.00 "
Soleil d'Or, Poeticus Ornatus, Von Sion, etc
Chinese Sacred Lilies, basket 30 bulbs $1 25 net cash
CALLA AETHIOPICA, 3-5 EXTRA..... 2 00

	Doz	100
Azalea Indica, finest standards, 8-10 in	$1 00	$30.00
10-12 inches	4 50	35 00
12-14 "	6 00	45 00
14-16 "	7 00	55 00

Pansy Seed, choicest giants.....½ oz., 50 cts.
Cyclamen Giganteum, choicest varieties, ...100 seeds, 75 cts.; 1000 seeds, $5 00
SWEET PEA SEED READY.
Valley Pips, superior brand, 1000, $12 00; case 2500, $25.00

ADDRESS **H. H. BERGER & CO.,**
47 Barclay St., New York.

AZALEAS

	Per 100	Per Doz.
10-12 inch	$35 00	$4 50
12-14 inch	45.00	6 00
14-15 inch	60.00	7.50
16-18 inch	100 00	15.00

They include the best market kinds, are well budded, and in every way perfect. The above prices are f. o. b. New York City.

100 CYCLAMEN GIGANTEUM, fine plants, 5-inch pots, $35.00.

F. L. ATKINS, Orange, N. J.

BEGONIAS AND GLOXINIAS In any quantity.

SANDER, Bruges, Belgium.

AGENT: **A. DIMMOCK,**
60 Vesey Street, - - - NEW YORK.

PELARGONIUMS.

A fine lot of plants, strong and bushy.

MME. THIBAULT, 50c per doz., $4.00 per 100.

A collection of 10 different varieties, all labeled, by mail postpaid, for 75 cts.

Cash with order.

MRS. THOS. LAWRANCE, Ogdensburg, N. Y.

SPECIALTIES IN BEST VARIETIES

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
Prices low. Send for list. **VIOLETS.**

WOOD BROTHERS, FISHKILL, N. Y.

Mention The American Florist.

BULBS

Of All Kinds.

Hulsebosch Bros.,

ENGLEWOOD, N. J.

ANTON SCHULTHEIS,

P. O. BOX 78,
College Point, Queensborough, New York, N. Y.

HEADQUARTERS

For Ericas (Heather); also full line of other Flowering Plants.
PALMS and DECORATIVE PLANTS IN QUANTITY.
Come, see and convince yourself.

Mention the American Florist.

The Standard of Quality

The VIOLETS grown by Willig and Bahret,
First Prize Winners at the Poughkeepsie show.
C. W. Ward's CARNATIONS.
J. M. Keller's CATTLEYAS.
Carl Jurgens' LILY OF THE VALLEY.

The product of these and many other growers of highest reputation is handled by

JOHN YOUNG

51 West 28th St., NEW YORK.

and when you get this stock you get the best. Prices on application.

AHEAD OF ALL CHRYSANTHEMUMS!

Mrs. Fred L. Button.

EARLIEST!
LARGEST!



MOST
PROFITABLE!

MRS. FRED L. BUTTON, SEPT. 15, 1898.

A magnificent pure white Chrysanthemum of the largest size. An easy grower. Will bloom in September no matter how you planted. A very good seller.

Strong Stock Plants now ready, $1.00 each.

Address.... J. A. CARBONE, West Berkeley, Cal.

Cincinnati.

TRADE IS IMPROVING.—CARNATIONS THE ONLY SCARCITY.—WHOLESALERS MOVE TO LARGER QUARTERS.—FLORISTS' SOCIETY PLANS A SERIES OF EXHIBITIONS.

The past week's business has been fairly good. Chrysanthemums are increasing in quantity, some very choice blooms can be had and the call for good flowers is also increasing. Roses are now plentiful to meet a steady demand. Carnations have been somewhat scarce of late and the supply is not now equal to the opportunity for sales. Violets are improving in quality. The Sixth street flower market has been badly overstocked the past few months and business last Saturday was at a standstill owing to disagreeable wet weather.

Ed. Freis, of Newport, Ky., will be married Thanksgiving Day to Miss Hattie Hagedorn, of Avondale. The wedding will be somewhat of a social event as the young people are well known on both sides of the river.

Karl Wolf, of Cumminsville, is now the happy father of a son.

Owing to increased business the Cincinnati Cut Flower Company, has removed to the College building on Walnut street. Their office, salesroom and packing department are on the first floor and everything is arranged in a most practical manner. This is now one of the best equipped wholesale houses in the west.

Nathan Smith & Son, Adrian, Mich., had one of their seedling chrysanthemums before the A. C. S. committee on November 5. The flower is a good pink on the order of Good Gracious, with strong stem and foliage.

The Cincinnati Florists' Society has prepared a schedule of premiums for plants and flowers to be exhibited at the meeting upon the second Saturday of each month. The November meeting is to be devoted to chrysanthemums, December to carnations, January to violets, February to roses, March to carnations, April to bulbs and May to bedding plants. H. SCHWARZ.

ORCHIDS. Splendid assortment of best varieties for Cut Flowers.

CACTI. Large stock of best Mexican sorts, including the popular "Old Man's Head."

BULBS for summer flowering.
Send for special "winter offers."

J. A. McDOWELL, P. O. Box 167, **City of Mexico.**

STOCK PLANTS.....

WM. H. CHADWICK

Chrysanthemum.

Unquestionably the grandest of all whites, $3.00 per dozen.

GROVE P. RAWSON, Elmira, N. Y.

New Free-Flowering

CHRYSANTHEMUM

"LITTLE CHRIS."

Notice and Illustration in Am. Florist last year, and in Florists' Review Oct. 13, 1898.

Plants from 3-in. pots, 35c each, 3 for $1.00.

W. T. BELL & SONS, Franklin, Pa.

BEGONIAS.

	Per 100	Per 100
Argentea gutiata	2-inch, $2.00;	3½ inch, $4.00
Feastii, Speculata	2-inch, 2 00;	
Rubra	2-inch, 3.00;	
Bertha Chatteaurocher, Robusta		3½-inch, 4.00
De Lesseps, Pres. Carnot		3½-inch, 4.00
Marie Louise Violet clumps		4.00
Roses—La France $3.00 per 100; Meteor		2.50
White, Pink and Yellow Rambler		3½-inch 4.00

THE NATIONAL PLANT CO., Dayton, O.

Herr's Pansies.

Good little plants (greenhouse grown) ready December 1st, at 75 cts. per 100, or $4.00 per 1000.

ALBERT M. HERR,

Herr's Carnations.

Every cutting guaranteed satisfactory or money refunded. All the leading varieties in quantity at reasonable prices.

LANCASTER, PA.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20 per 1000. Rooted Cuttings, 75c per 100; $6.00 per 1000; $50 per 10000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

Cannas To grow on some novelty Cannas in your houses this winter will brighten up things and will pay sixfold in the increase. Besides, it's a good adv. all winter long to your retail buyers who visit the place to get warm and to see what you're going to have. We have made up a set which we know is worth growing on. It contains Allemania, the giant and best of the Italian type; America, orchid-flowered, bronze leaf; Dwarf Florence Vaughan, yellow and red; Mlle. Berat, pink; Francois Gos, pure orange; Secretary Chabanne, orange with deeper markings; Souv. d'Antoine Crozy, scarlet with heavy gold edge; Triumph, dwarf rich, bright red; Inglewood, dark leaf, flowers deep vermilion; Menelek, rich nasturtium red—all A1 high class Crozy sorts, the ten till Nov. 20th for only $1.50.

VAUGHAN'S SEED STORE,

NEW YORK: 14 Barclay St. CHICAGO: 84-86 Randolph St.

Caladium Esculentum

1st size 9-12 in. circ. $5 00 per 100; $32 00 per 1,000.

2nd size 7-9 in. circ. $3.75 per 100; $18.00 per 1,000.

3d size 5-7 in. circ $2.50 per 100; $7.25 per 1,000.

8,000 Fancy Leaved Caladiums in Variety.

Names and prices upon application.

5,000 Crinum Americanum, large blooming size, $8.00 per 1000.

B. H. RITTER, Port Royal, S. C.

SPECIAL FOR 14 DAYS ONLY.

25,000 Coleus, 2½ inch pots, Golden Bedder, Verschaffelti and Mixed Variegated, $12 00 per 1 000. Good cutting on every plant.

Also well-rooted Geranium cuttings. No better to be had.

U. S. Grants, La Favorites and others. $1 25 per 100; $10 00 per 1.000.

Smilax, 2½ inch pots, good strong plants, $6.00 per 1.000. Cash with order, please. Address

R. I. HART, Mgr., P. O. Box 244, Hackettstown, N. J.

HYDRANGEA OTAKSA

XX strong plants, per doz., $3.50; per 100, $27.50
" " for 8-inch pots.....
.....per doz., $3.00; per 100, $20.00
Medium size, " 2.00; " 12.00

ERICA FRAGRANS, 5 & 6-in. pots, per doz., 4.50

Extra fine plants.

DUTCH BULBS & INDIAN AZALEAS now at hand.

L. C. BOBBINK, Rutherford, N. J.

CHRYSANTHEMUMS STOCK PLANTS.

Western King, Mrs. H. Weeks, Golden Wedding, Iora, Mme. Philip Pivorire, Sunstone, Mme Felix Perrin, Mrs. M. A. Ryerson—$1.00 per doz.

Modesto, Major Bonnaffon, Mayflower. Nyanza, Silver Cloud, Mrs. McK. Twombley, Mrs. Jerome Jones, Mrs. Pullman —50 cts. per doz.

Yellow Fellow—$2.00 per doz.

W. H. Chadwick—$3.00 per doz.

	Per 100
DRACAENA Indivisa, 6-in. pot grown,	$20.00
" " 5-in. "	15.00
HYDRANGEA Otaksa 6-in. "	20.00
" " 5-in. "	18.00
UMBRELLA PLANT, 4-in., fine.....	4.00
FERNS, assorted, 4 & 5-in., doz., $1.25	
COLEUS Klondike, rooted cuttings...	1.50
	Per 1000
GERANIUMS, S. A. Nutt, rooted cuttings, sand or soil.....	$12.00
Mme. Bruant, rooted cuttings, sand or soil.....	12.00
La Favorite, rooted cuttings, sand or soil.....	12.00
Hetheranthe, rooted cuttings, sand or soil.....	12 00
Also other varieties from	$12 to 20.00
	Per 100
ROSE GERANIUMS, rooted cuttings...	$1.50
Mme. Saleroi " " " ...	1.00
VINCA Var., field grown.....	6 00

CARL HAGENBURGER, W. Mentor, O.

To Catalogue and Market Men.....

NOW READY!

STRONG CANNA TUBERS

of 1 to 3 eyes.

NEW—Florida, Gloriosa, Surprise, Pres. McKinley. $5.00 per 100.

Mme. A. Bouvier, Flamingo, Alsace, Souv. de Antoine Crozy. $3.50 per 100.

Italia, Queen Charlotte, Chicago, Philadelphia Eldorado, Comte de Bouchand, Papa, Glory de Montet. $2.00 per 100.

Burbank, Florence Vaughan, Egandale, Salmon Queen, Sunset Glow, Mme. Crozy, Chas. Henderson A. Bouvier, John Laing, Paul Marquant, Austria, and many more. $1.50 per 100.

Full 1000 of Burbank, Austria or Evandale, $8.00

Full 1000 of Florence Vaughan or Queen Charlotte $15.00. (All others named, 10 per cent. off by the 1000.)

ORDER NOW. Nothing reserved at these figures.

F. O. B. Express or Fast Freight.

Pampas Plumes. Crop 1898.

Size in length, exclusive stems.	First-class in every respect. Per 100
17 to 20 inches	$.75
20 to 22 inches	1.00
22 to 24 inches	1.25
24 to 27 inches	2.00
27 to 30 inches	3.00

Pampas Grove Nurseries Greenland P. O., Fla.

Mention American Florist.

25,000 CERANIUM CUTTINGS. S. A. Nutt, La Favorite, Grant and 20 other varieties, $1.25 per 100: $10 per 1000. **25,000 Coleus Cuttings.** Golden Bedder and Crimson Verschaffelti, 75c per 100; $6 per 1000. Cash with order please. NEAR PHILA.

INSALL & LEADBETTER, Moorestown, N. J.

1899 ANNOUNCEMENT 1899

Having added largely to our greenhouse plant, we are now better than ever prepared to supply first-class florists' plants at prices allowing a good profit to the florist. We have added many new and valuable plants to our list and call particular attention to our select line of Novelties as well as to our large healthy stocks of Standard Varieties.

CHRYSANTHEMUMS

We shall offer new varieties of startling merit in yellow, white and pink, among them **ADMIRAL DEWEY,** an entirely new and striking shade of **deep orange yellow.** We offer also stock plants of the best of the introductions of last year and a full line of stock plants of standard sorts.

GERANIUMS.

We have full sets of the **Novelties** of recent introduction by the leading **French** and **English** growers, many of them of such striking colors and markings as to create a lively interest in the Geranium by all who have seen them. Our list will cover all the different types such as double and single **Aureole, English Round Flowered,** double and single **Bedders** and double and single **Bruants.** Our stock of **Standard Varieties** is large and our list especially well selected.

CARNATIONS.

In conjunction with Messrs. F. Dorner & Sons we shall introduce valuable commercial seedlings, such as **General Maceo,** a rich scarlet maroon; **General Gomez,** a brilliant cardinal crimson; **G. H. Crane,** a dazzling deep scarlet, and a **white seedling** of the type of **Snowden,** of dwarf habit, suitable for side benches. Our list of standard sorts includes **New York, Mrs. Jas. Dean, White Cloud, Bon Ton, Gold Nugget, Mrs. G. M. Bradt, Daybreak, Victor, Wellesley, Evelina, Empress, Flora Hill, Argyle** and several other well tried varieties. We have 10 large houses in Carnations and having added ample cold frames with heat for holding young stock, shall be prepared to fill large orders with clean healthy cuttings and plants.

DAHLIAS.

A select stock in varieties that flower profusely in this climate and are suitable for florists, either as bedding plants or for cut flowers.

CANNAS.

The new variety **President McKinley** has proved to the satisfaction of all Canna growers that it is the best dwarf crimson bedding Canna introduced, really the gem of the collection. We have a fine stock of it and can fill all orders that are sent in season. We have also fine stocks of **Pres. Cleveland, Sec'y Chabanne, Beaute Poitevine, Mrs. Fairman Rogers, Philadelphia** and all the leading standard sorts.

ASPARAGUS SPRENGERII.

Fine bushy plants in 4-in., 5-in. and 6-in. pots and 8-in. pans, ready for grand specimens for Christmas and Easter.

PANDANUS VEITCHII.

A house full of well grown specimen plants in 5-in., 6-in. and 7-in. pots at prices ranging from $1.00, $1.25, $1.50 and $2.00 each upwards.

KENTIAS BELMOREANA and FORSTERIANA.

Strong, clean, stocky, cool grown plants from 5-in. and 6-in. pots in fine shape, at $1.00 to $1.50 each.

NEPHROLEPIS CORDATA COMPACTA.

In 2½-in., 3-in. and 4-in. pots and 8-in pans.

ACALYPHA SANDERI.

We are **headquarters** for this striking new bedding and decorative plant.

OUR 1899 PRICE LIST will be issued early in January and will contain full descriptions of all the best Novelties and cuts of the most striking and meritorious varieties. Before deciding on your purchases for 1899, it will pay you to wait and study our Catalogue.

THE COTTAGE GARDENS, Queens, N. Y.

C. W. WARD, MANAGER.

NIKOTEEN

IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS - ENDORSED BY PROMINENT FLORISTS - USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN ---- CIRCULAR FREE -

SKABCURA DIP CO. CHICAGO.

Kill and Save the Blooms and the Bugs!

QUICKLY DOES IT.



MAKES FLOWERS FLOURISH And Your Profits Increase.

Walker's Plant Food

is a scientifically prepared fertilizer which every one of your customers should have and will want when you show it to them.

100% Profit for You.

Send for free literature and price lists.

Walker Fertilizer Co., Clifton Springs, N.Y.



PULVERIZED

Sheep Manure

50 lbs., 75c.; 100 lbs., $1.25; 500 lbs., $5.00; 1000 lbs., $9.00; per ton, $17.00, if shipped from Chicago. 50 lbs., $1.10; 100 lbs., $2.00; 500 lbs., $8.00; 1000 lbs., $15.00; ton, $27.00, if shipped from New York.

Vaughan's Seed Store, NEW YORK. CHICAGO.



32-page pamphlet on

"Ashes as a Fertilizer,"

for the asking. Every farmer should have one.

GEO. STEVENS,

PETERBORO', ONT., Canada

THE BEST FOR ALL Florists'

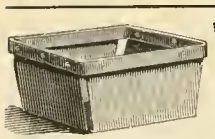
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WILLIAM MAY,

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FRUIT PACKAGES

Berry Crates and Baskets a specialty. Facilities unsurpassed. The lowest prices. For further particulars, address

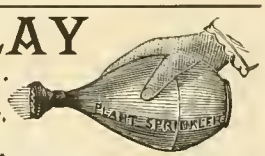
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SPRINKLER...

INDISPENSABLE

J. A. Scollay, Maker, 74 Myrtle Ave. Brooklyn, N. Y.



VAUGHAN'S SEED STORE, Gen'l Western Agents, 84 Randolph St., CHICAGO.

Important Notice.

To the Seed, Flower, Nursery and Allied Trades:

THE seventh edition of our Directory will soon be ready for the press. This book is in constant use by all the leading wholesale and retail seedsmen, nurserymen and florists of the United States and Canada, and there are some 13,000 of them. The names and addresses are in process of revision, and the new edition will be issued promptly on January 1, 1899. An advertisement in this publication will largely increase your trade; and to insure good position and display, we should have the order early. A copy of the book will be mailed free of charge to all advertisers.

Many of our patrons have expressed the highest satisfaction with the increase of business due to having their names on the alphabetical list in large type. This feature will be continued in the next edition at the small cost of $1.00. For $2.50, sent with order, we will place your name in large type and mail you a copy of the next edition. The book will save you many times its price in the course of the year.

Trusting to be favored with your commands, we are,

Yours very truly,

The American Florist Company,

324 Dearborn Street, CHICAGO, ILL., U. S. A.

Send your advertisement and order for large type now.

Sheep Manure!

IN BULK	Per ton
Pulverized, car lots	$8.00
Natural, car lots	4.00
IN SACKS OR BARRELS	
Pulverized, less than car lots	12.00
Natural, less than car lots	8.00

F. O. B. cars here.

Mitchell, So. Dakota. E. C. NEWBURY.

NATIVE GUANO!

(Desiccated Night Soil.)

The ideal florist fertilizer: contains in available condition, all the elements of plant food. Pleasant to handle. By bag, ton or carload.

STANDARD FERTILIZER CO.,

1822 Filbert St. PHILADELPHIA.

We've thousands of readers and hundreds of advertisers. Each helps the other.

ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for the.....

"Horticultural Advertiser"

This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Annual subscription to cover cost of postage 75 cents.

Address EDITORS OF THE "H. A." Chilwell Nurseries, - Notts, England.

Sulpho-Tobacco Soap

Universal Insecticide

For Flowers, Trees and Animals.

Recommended and in use by the foremost florists and nurserymen in the land.

For Sale at the Seed Stores.

ROSE MFG. CO.

NIAGARA FALLS, N. Y.

LAST CALL!



AZALEA.

There has been a slump lately in the Romans and Paper Whites that are left over from the regular fall trade, and we want to get rid of ours just as badly as anybody, BUT, there is just this difference, the bulbs we have left are of regular full size, clean, smooth skins, and not the scraped-up cull lots left over on the other side and "consigned" here at any old price. Yet, we will sell at low rates NOW to clear them out.

QUOTATIONS BY WIRE OR LETTER ON RECEIPT OF ADVICE OF QUANTITY YOU CAN USE.

WHITE FRENCH ROMAN HYACINTHS, 11 to 12 ctms.
" " " " 12 to 15 "
" " " " 13 to 15 "
" " " " 14 and up "
NARCISSUS PAPER WHITE, Giant Flowered.
FREESIA REFRACTA ALBA.

Chinese Sacred Lily. The best selling bulb for the retail counter trade. Per 100.....$4.50. ☞Special prices for quantities

AZALEAS.

Our first consignment of Azalea Indica (two carloads) is now unpacked. The plants are in fine condition and of good shape. ORDER NOW while weather is suitable for shipping of same.

SPECIAL PRICES QUOTED FOR QUANTITIES.

PRICES:	PER 100
10 to 12 inch	$40.00
12 to 14 inch	45 00
14 to 16 inch	55.00

TUBEROSES—New Crop Ready.

WE IMPORT ONLY THE MOST POPULAR AND BEST SELLING VARIETIES.

VAUGHAN'S SEED STORE,

NEW YORK, 14 BARCLAY ST. 84-86 RANDOLPH ST., CHICAGO.

HEADQUARTERS FOR HOLLY, GREEN, AND ALL OTHER XMAS DECORATIONS.

Chrysanthemum Stock Plants....

ALL THE BEST STANDARD AND NEW VARIETIES.

Asparagus Sprengerii....

In SIX, EIGHT, TEN, TWELVE and FOURTEEN INCH PANS.

SEND FOR PARTICULARS AND PRICES.

American Rose Company,

WASHINGTON, D. C.

Geranium "MARS"

	Per Doz.	Per 100
ROOTED CUTTINGS	$.50	$3.00
2½-INCH POTS	.75	5.00

Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

NEW MAMMOTH VERBENAS.

In this specialty we challenge the world. For size of bloom, variety of colors, shades, marking, healthfulness and vigor of plants, there is nothing that can surpass them in this or any other country. Growing as we do large quantities, we are prepared to fill an order for any quantity on short notice. Our plants out of 2-inch pots will afford an abundance of cuttings; price, $1.50 per 100. Rooted cuttings, 60c per 100, $5 per 1000, in 25 grand varieties. Special prices on large quantities. No orders solicited for less than $1. Cash with order. Send for our circular.

SOUTH SIDE FLORAL CO., Springfield, Ill.

Violet Clumps!

Luxonne, $5.00; Admiral Avellon, $4.00; California, $3.00; Russian, $3.00; Swanley White, $4.00.

CANNA CLUMPS. Try some of our pink Cannas.

The Conard & Jones Co., WEST GROVE, PA.

Indianapolis.

BUSINESS GOOD.—A BRISK DEMAND FOR CHRYSANTHEMUMS.—GROWERS' HEATING EXPERIENCES.—A PAPER ON CINERARIAS.—THE SHOW.

Most of our florists pronounce last week's business as good. Carnations are becoming more plentiful, while roses and violets continue to be rather scarce. The demand for chrysanthemums, cut flowers as well as pot plants, has been steadily increasing until it is now considered better than last year, with prices about the same. Most buyers prefer pink. Among the early ones Glory of Pacific took the lead and now Mrs. Perrin takes its place. Major Bonnaffon is still the favorite yellow and in white Mrs. Robinson leads.

Ed. Corneli had a break down in his heating system which caused him considerable trouble and expense; the fires could be started, however, before his stock was seriously damaged. The houses and heating system of the Columbian Place Floral Company received a thorough overhauling this year. A. Nelson's place cannot be beat for neatness; he is justly proud of his carnation houses.

At last week's meeting of the Florists' Club A. Schreiber read a paper on cinerarias. He is considered an expert on pot plants, and we hope he will soon favor us with another lesson on their culture.

The chrysanthemum show will be opened November 8 by Mayor Taggart. The decoration of the hall is vastly different from that of former years; colors are less prominent, the idea being to have a back-ground on which the exhibits will show to their best advantage. The entertainment to visiting florists will take place Wednesday evening.

H. JUNGE.

GLADIOLI

PEERLESS strain—the best extant!
PREMIER strain—as good as any!
POPULAR strain—hard to excel!

Extra White and Light, Standard W. and Lt. Reds, Pinks and Variegated May, Snow White and many others.

CANNAS

Best named sorts. Extra fine seedlings.

DAHLIAS

A very select list of free blooming sorts.

GERANIUMS

A fine stock of rooted cuttings, $12.50 and $15.00 per 1,000.

OUR AIM....

The very best quality.

Send us a list of youa wants and get our prices.

Betscher Bros.

CANAL DOVER, O.

Lettuce Plants

BIG BOSTON, BOSTON MARKET, GRAND RAPIDS and TENNIS BALL.

Extra stroug plants, 15 cts. per 100; $1.00 per 1000; $8.50 per 10,000. If by mail, add 10c per 100.

CASH WITH ORDER.

R. VINCENT, Jr., & SON, White Marsh, Md.

When corresponding with advertisers, mention the AMERICAN FLORIST.



The Grower's Box for Cut Flowers.

The grower who carries his flowers to market should not be a day without our "Grower's Box." This box has now been four years on the market, and grows more popular every day. Extra strong for its weight, braced with cleats outside and inside; has strong brass corners, is the right size and shape for a commercial box; heavily shellaced and absorbs no moisture. No. 1, size 36 x 12 x 6 inches, in sets of 3, per set $2.70; No. 2, size 30 x 12 x 6 inches, in sets of 3, $2.55 per set. I also furnish a box for expressing, in two styles, "Grower's" and "Retailer's." Send for particulars.

W.P. GRAND MEDAL EXPOSITION 1889

G.C. WATSON

IMPORTER OF Bulbs for Florists, Fancy Grass Seeds, Field & Garden Seeds, Florists Flower Seeds

WHOLESALE SEEDSMAN AND COMMISSION MERCHANT

TRADE W.P. MARK.

RAFFIA, SPIRÆA, VALLEY, Tobacco Stems.

Juniper and Walnut Streets,

PHILADELPHIA, PA. U.S.

THREE MONEY MAKERS



GROW this BABY Primrose!

PRIMULA FORBESI is but little known: our very accurate cut shows how freely it bears its long stemmed flowers of a delicate rose, so valuable for fine floral work. Philadelphia's most fastidious floral artist pays $2.00 per 100 stems and one plant will produce hundreds of them. Blooms in 2 inch pots, grows freely in cold frames and under benches, fine for bedding, nearly hardy.

12 Plants by mail for $1.25; 100 by express, $8.00.

BEATS BOSTON FERN!!!

ASPIDIUM PROLIFERUM WOLASTONI

This grand decorative Parlor Fern is far more valuable for cutting than the Boston Fern. The fronds are a dark velvety green and last over 2 weeks in water. They bring a dollar a dozen. Plant nearly hardy, grows finely in cold house, excellent room plant.

12 Plants by mail for $1 50; 100 by express, $10.00.

ASPARAGUS SPRENGERI.

Finest green for cuttings and most profitable of all. In great demand at all times. Grand for Christmas sales. We introduced it

24 by mail, $1.50; 100 2½ inch, $5.00 by express.

A. BLANC & CO., PHILADELPHIA.

IF YOU WANT A **GOOD HOSE** Send for our

Price List, and a sample of what we will sell you.

J. G. & A. ESLER, Saddle River, N. J.



New Dwarf CUPID Sweet Pea,—Burpee's "BEAUTY."

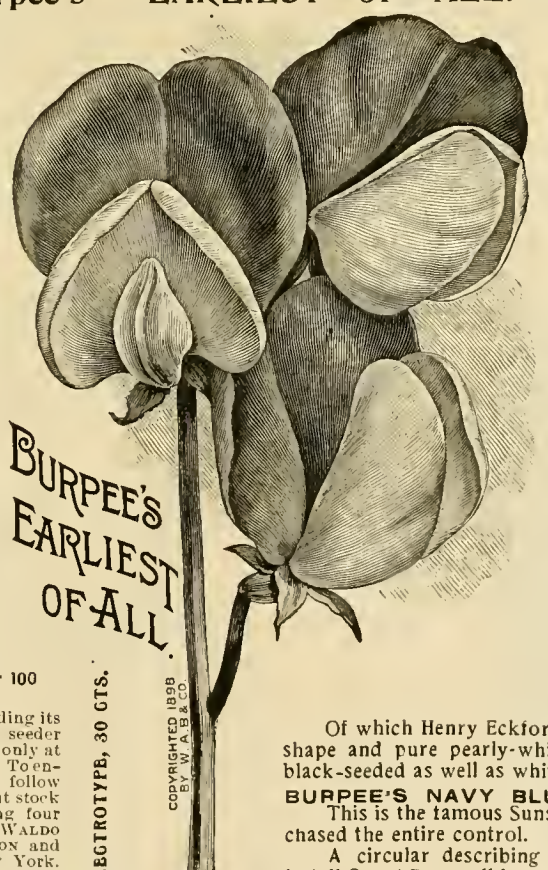
BURPEE'S BEAUTY CUPID, while being always of the true Cupid type—growing only six to seven inches high with deep emerald-green foliage—bears flowers fully equal in size, form, and substance to the best of the new tall Sweet Peas. The handsome large flowers are borne most profusely all over the plant in clusters of three at the top of strong stems. Of unusual breadth, rather pointed at the top, and edges recurved, giving it the deeply hooded effect of *Prince of Wales* or *Her Majesty*. The standard is a delicate and yet *decided rose color*, lightening to nearly white at the edges, and slightly striped with carmine at the base. The wings are suffused rosy-carmine, deepening at the edges. A vigorous grower, it is a wonderfully free bloomer, and besides its beauty in the garden promises to be of real value as a commercial flower in greenhouses.

New Sweet Pea.—Burpee's "EARLIEST OF ALL."

"Every florist will be eager to have this distinct new strain, when we state that it is identical with the *Extra Early Blanche Ferry*, except that it is more dwarf in growth and comes into full bloom *at least ten days earlier.*" The prophecy just quoted from our remarks last year has been more than verified as the demand was extraordinary, and we have received most enthusiastic letters as to the unique value of EARLIEST OF ALL, both for forcing and open ground. The illustration was engraved from a photograph of a spray of flowers, exactly natural size. This most valuable new strain originated with MR. THOMAS GOULD, who wrote us, September 10, 1897.

"The new '**Earliest of All**' were so closely selected that their habit was *uniformly* dwarf after slight roguing, as compared with parent plants, coming into general bloom fully two weeks before the Extra Early Blanche Ferry showed scattered bloom. The distinctiveness in early habit was so marked in all stages of development as to invite interrogations from *every* visiting seedsman as to the difference between this selection and its parent stock, growing immediately contiguous. In fact, this characteristic was unquestionable to an experienced eye as far away as the bloom could be distinguished. I was much chagrined to receive such a small crop after all the precautions taken to save almost every seed."

Per pkt. 10 cts.; per ounce 40 cts.
Wholesale, **$5.00 per 100 pkts., $25.00 per 100 ounce-packages.**



ELECTROTYPE, 30 CTS.

Burpee's "EARLIEST OF ALL," notwithstanding its free-flowering character, proved such a shy seeder last year that we were able to offer the seed only at retail, in sealed packets of twenty seeds each. To enable us to meet the demand that was sure to follow from florists and dealers this season, we sent stock seed for planting last winter to the following four well-known growers: C. C. MORSE & Co. and WALDO ROHNERT, of California, and W. A. DENISON and ROGERS BROTHERS, of Jefferson County, New York. In inspecting these contract crops the past spring and summer, as well as on our own grounds at FORDHOOK, we found that "**Earliest of All**" came uniformly dwarfer, more even in growth, and **always ten days to two weeks earlier in bloom than the Extra Early Blanche Ferry.**

3 NEW CUPIDS.

WE invite special attention to the THREE NEW CUPIDS—BURPEE'S BEAUTY, ALICE ECKFORD, AND PRIMROSE—as undoubtedly **the most important Novelties for 1899.**

We offer all of these at uniform price as follows:

In regular size packets (each containing twenty-four seeds):

Per pkt. 25 cts.; 5 pkts. for $1.00; per dozen pkts. $2.00;
Per 100 Pkts. $12.50.

A lower rate will be quoted by **the thousand packets.**

In half-size packets (each containing twelve seeds):

Per pkt. 15 cts; 2 pkts. for 25 cts.; or 10 pkts. for $1.00.
Per 100 Pkts. $7.50.

A lower rate will be quoted by **the thousand packets.**

ALICE ECKFORD CUPID.

The blooms, while of only medium size, are of fine, erect form, and borne in close clusters of three on stiff stems, displaying most attractively the charming, blended coloring. The standards are a rich, creamy-white, suffused or blended with a delicate shading of soft-flesh pink; the wings are silvery-white with a faint pink flush in the central portion. The flower is identical in size, form, and color, with that of the tall *Alice Eckford*, which, while not of the largest size, has been admired so greatly on account of the delicate and harmonious shadings of softly blended tints.

It is a *black-seeded* variety of strong vitality, so that no difficulty need be feared in securing a good stand of plants, even under adverse circumstances, while like all the *Cupid* varieties it will bloom much longer and more freely during hot dry weather than any of the tall varieties of Sweet Peas.

PRIMROSE CUPID....

Like all the other Cupids, this is very free flowering, and the dwarf plants, only six to seven inches high, have that distinct *emerald-green* foliage which is peculiar to this new race. This is identical with the original white CUPID in all respects except coloring. The flowers are of a rich *creamy tint*, identical with that of the tall *Primrose*. The seed we offer is all hand-picked and therefore, although *white-seeded*, will grow nearly as vigorously as the hardier *black-seeded* varieties.

TWO GRAND NEW TALL SWEET PEAS

.... NOW FIRST INTRODUCED.

ECKFORD'S SADIE BURPEE.

Of which Henry Eckford says "the extreme daintiness of its shape and pure pearly-whiteness is beyond description." Being black-seeded as well as white-seeded, makes it of exceptional value.

BURPEE'S NAVY BLUE.

This is the famous Sunset Novelty "A," of which we have purchased the entire control. It is a distinct color innovation.

A circular describing both of these remarkable Novelties in tall Sweet Peas will be sent on application.

OUR SPECIAL CATALOGUE of 24 pages, giving full illustrated description of all these and other new Sweet Peas, besides several other important Novelties in Vegetables and Flowers, which are now offered to the trade, will be mailed free on application. Electrotyes furnished at a nominal price (practically free) to houses who catalogue our Novelties for 1899.

W. ATLEE BURPEE & CO., PHILADELPHIA.

Rochester, N. Y.

The local Florists' Club is fast asleep if not deceased. No meetings have been held for over a year; no entertainments have been going on, no contests of any kind, no lectures delivered, no papers read; even dues are not collected. It is true, the club never had a regular gathering place. The meetings were held at the bowling alleys or occasionally in one of the stores. From the very start the club had been in feeble health and the members needed a great amount of coaxing to keep them together. There is no reason for this unfortunate state of affairs other than simply lack of interest. A few would like to see a revival of the weekly meetings, not only for the sake of a bowling game, but for the more useful purpose of exchanging ideas and learning the views of others on topics pertaining to the trade. Whether their endeavors to stir up the sluggish members will meet with success is doubtful as yet, but we are in hopes.

Fall trade in the nurseries is very brisk this year. A large amount of ornamental stock is being dug up. Fruit trees are not so much in demand for fall planting, but small fruits, especially gooseberries and currants, are dug by the thousands every day. The tree digging machines come very handy for these large orders; they save a pile of labor and don't mutilate the roots half as much as does a man with a spade.

The past few weeks have been quite satisfactory to the retail florists. Chrysanthemums are very plentiful. Perhaps too many are grown in town and they move slower than in former years. Growers are not well pleased as prices are low and are likely to decline still further in the near future when the mid-season chrysanthemums come on in bulk. There is no regular wholesale price for the chrysanthemums, some good flowers having been bought for 3 cents, while 6 or 8 cents were paid for the same goods and on the same day by another party. This irregularity extends to other flowers as the grower is anxious to dispose of his cut, more flowers being in sight than we are used to in the beginning of November. J. B. K.



For descriptive circular and price list, Address

LEHMAN BROS.

Manufacturers

10 Bond Street, NEW YORK.

LEHMAN'S

Wagon Heaters

Will keep your delivery wagons at a temperature that will prevent your plants and flowers freezing in the coldest weather. Positively no smoke, no smell, no gas, no danger. Cost of opering less than one cent per hour. Thoroughly reliable, inexpensive and durable.

OR JAMES W. ERRINGER, General Western Sales Agent,

297 Wabash Avenue, CHICAGO.

Our Good Book

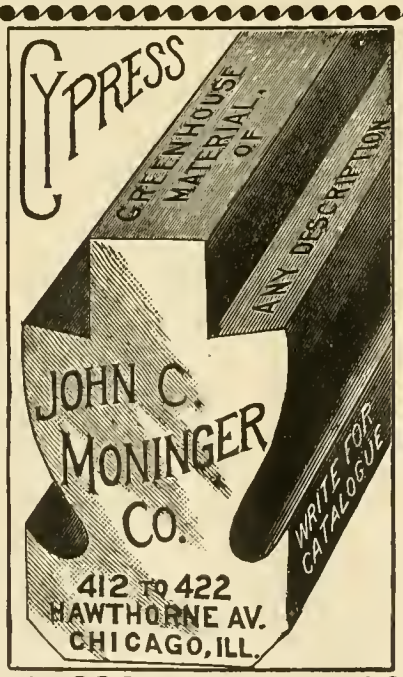
THE American Florist Company's Directory of the trade lists both alphabetically and by states and towns every one of the 13,500 persons or firms in North America engaged in the Florist, Seed or Nursery business. It states in which particular branch of the business each one is engaged, a feature of great value to those who issue catalogues, as by its guidance mailing to those not interested in your goods may be avoided and many times the cost of the book will be saved in postage and printing, to say nothing of disappointment.

THE AMERICAN FLORIST COMPANY.

324 DEARBORN STREET

CHICAGO, ILL., U. S. A.

Bound in boards, 351 pages, postpaid, $2.
Bound in flexible eather, postpaid, $3.....



WE CARRY CONSTANTLY A LARGE AND COMPLETE STOCK OF

Clear Louisiana Cypress Lumber...

AND CAN FILL ALL ORDERS PROMPTLY

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NURSERY AND SEED CATALOGUES.....

Cleveland.

GOOD DEMAND FOR STOCK.—ROSES SELDOM GO TO WASTE AND CARNATIONS NEVER.—CHRYSANTHEMUMS SELL WELL BUT PRICES ARE NOT HIGH.

There is a very fair demand for stock of nearly all kinds and good quality. Roses sell well but the greater part of them go at from 2 cents to 3 cents, with at times a few going to waste. Chrysanthemums are very good in quality and sell at all prices, from 4 cents to 12 cents, the latter being absolutely the top notch and attained by very few flowers. These, by considerable effort, occasionally retail at $3 a dozen. The greater call is for the stock at a lower price, say from 4 cents to 8 cents and retailing at prices between $1 and $2 a dozen.

Carnations seem to be in rather short supply, and are often hard to get in quantity. They seem to be rather off crop with nearly everybody, but the all-pervading chrysanthemum prevents any increase in price. A.

WILMINGTON, DEL.—H. P. Potter, whose greenhouses are at Twenty-fourth and Market streets, has opened a store at 401 Delaware avenue.



BRANCH WAREHOUSES:
Kearney and Westside Aves., Jersey City, N. J.
Jackson Av. & Pearson St., Long Island City N. Y.

Standard FLOWER Pots

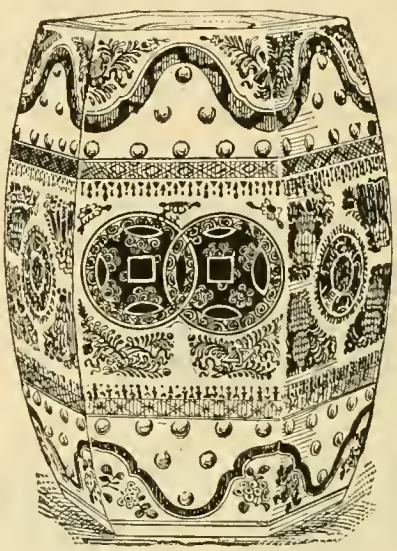
If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST,
Station M, N. E. WASHINGTON, D. C.

Standard Pots Made by
Good Railroad Facilities For shipping. Special Attention Given to Mail Orders, and Special Sizes Made to Order.
KELLER BROS.
NORRISTOWN, PA.
Price Lists Furnished on Application.

FLOWER POTS
ALL KINDS.
STANDARD POTS A SPECIALTY
List and SAMPLES FREE.
J. G. SWAHN'S SONS, P. O. Box 78, MINNEAPOLIS, MINN.


CANTON CHINA PLANT-POT.


CANTON CHINA HALL-SEAT OR PLANT-POT STAND

PLANT POTS AND PEDESTALS.

We invite the attention of intending buyers or those interested in seeing the newest productions of the potter's art to our importations of English, French, German, Japanese and Chinese plant pots or jardinieres selected by our buyers at the places of production in the present season.

They include all sizes and shapes up to the large and very large, from the lowest price up to $150 each.

Some very costly old blue Canton China.

Our stock of China and Glass occupies seven floors and more than 10,000 bins.

Wholesale and Retail.

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CHINA AND GLASS MERCHANTS,
120 Franklin Street, BOSTON, MASS.

Columbia Plant Tubs (Patented)



MADE OF CYPRESS. NEVER DECAY. NEVER FALL APART.

SUCCESSORS TO HOME RATTAN CO.
THE INVALID APPLIANCE CO. Sole Manufacturers 339-341 Clybourne Ave. CHICAGO

Standard Flower Pots...
OUR POTS ARE OF THE BEST QUALITY.
We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.
☞ Write us before placing your orders elsewhere.....
CAMBRIDGE TILE MFG. CO., Covington, Ky.



Please Mention American Florist.



GEO. KELLER & SON,
MANUFACTURERS OF
Flower Pots.
Before buying write for prices.
361-363 Herndon Street near Wrightwood Ave.,
CHICAGO, ILL.

It is good business policy to mention the
....AMERICAN FLORIST
when you write to an advertiser.

THOSE RED POTS
"STANDARDS"
FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.
DETROIT FLOWER POT M'F'Y,
HARRY BALSLEY, Rep. DETROIT, MICH., 490 HOWARD ST.

SAVE 25 PER CENT
on your FLOWER POTS. Send for price list and Bargains to
KILFINGER BROS. POTTERY, Fort Edward, N. Y

WHY DO FLORISTS

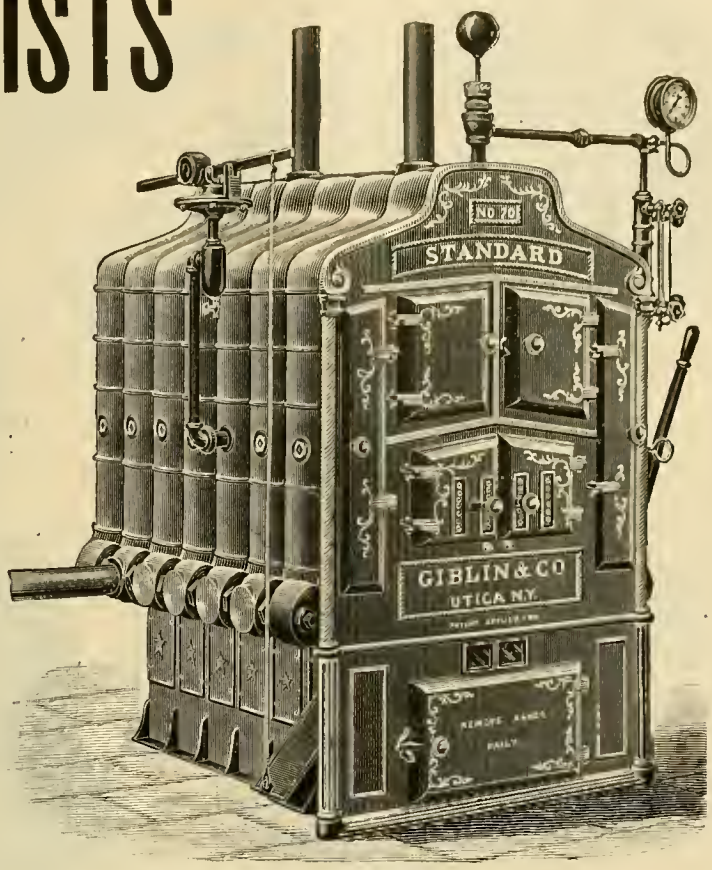
not use the same common sense in buying their heating apparatus as in developing their plants? On certain plants, money and time are thrown away, and no matter how much money and time are spent on them they never amount to anything. It is so with boilers; unless they have excellence in their construction, they are a constant source of

WASTE

Such boilers are usually cheap when first bought, but because of repairs, waste of fuel, labor required in managing, they are a continual source of expense, and every year the florist wastes the difference between what he has paid for a poor boiler and what he would have to pay for a good one. Our boilers are acknowledged of superior merit, they operate with a reasonable supply of

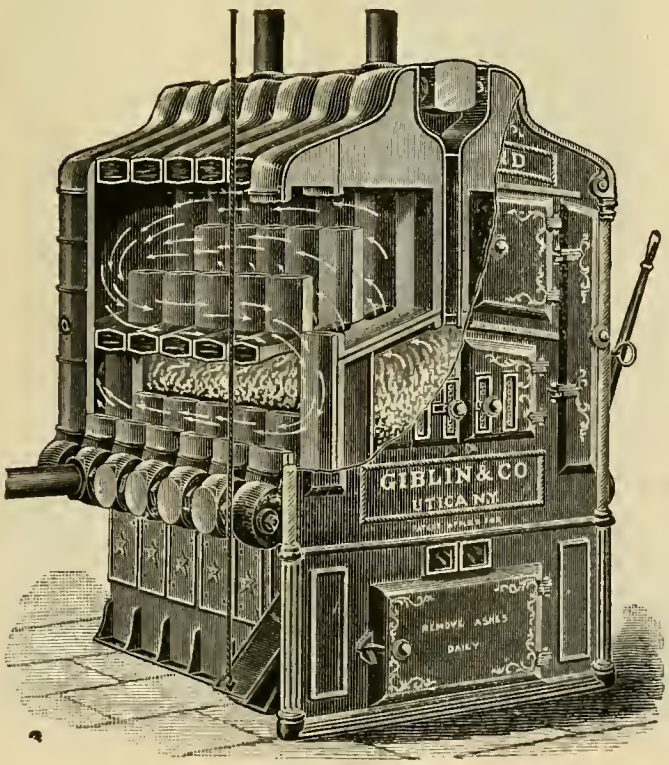
FUEL

and the labor required in managing is reduced to a minimum. With these boilers the florist does not have to



STAY UP NIGHTS

to keep his plants from freezing. He sleeps with perfect confidence that the boiler will take care of itself and provide the heat wanted. Where our boilers are known they are appreciated. Where they are not known it is safe to say money is wasted.



WE KNOW that our statements are prejudiced because we are interested in selling our boilers. Do not believe them, but write for our Catalogue and read the letters of florists who have used these boilers and who have written us the results accomplished. They are not prejudiced or interested.

For the purpose of introducing our boilers where they are not known, we will sell at

WHOLESALE

to the person in each town who first orders a boiler for his own use, and in addition will

DONATE 25 %

on the net price towards paying for the fuel consumed the first winter.

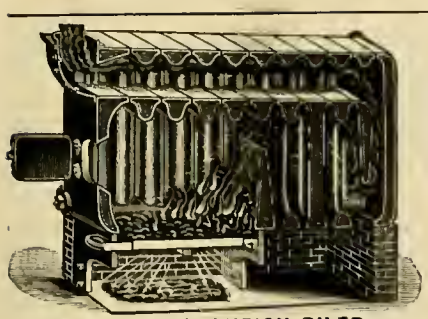
OUR STANDING { Bradstreet's, Highest Credit. / Dun's, " "

While our boilers have been sold for the past seven years in the whole cold region of the United States, yet there are some places where they are not known, and we make this **EXTRAORDINARY** offer to make them known.

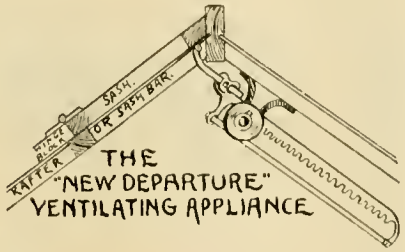
This advertisement will appear this time **ONLY** and anyone wanting a boiler may inquire by mail, when full particulars will be given and a chance of a **LIFETIME** offered to obtain a boiler at a nominal cost.

GIBLIN & CO.,
UTICA, N. Y.

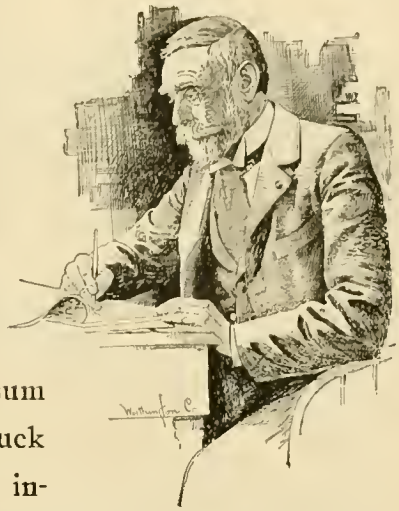

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The Largest
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IN THE WORLD
150 SKILLED ARTISTS AND ARTISANS
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AND
160 ADAMS ST.
CHICAGO.
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AMERICAN CHAMPION BILER.



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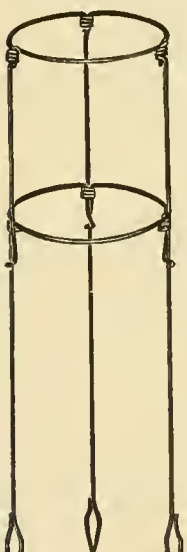
Worcester, Mass.

The sales of chrysanthemums have increased considerably this week, and prices have stiffened in consequence. We are now getting the better grades of flowers and though prices are not what they used to be, they are fairly satisfactory. The early varieties are pretty well cleared out and we are getting splendid Mrs. Perrin, Philadelphia, Bonnaffon, Ivory and Belle of Castlewood.

Outside of the regular trade we have been getting a good many wedding decorations and considerable funeral work. The supply of flowers is about equal to the demand and the quality is very good. Violets are still in rather short supply, but a few bright days will remedy this. A. H. L.

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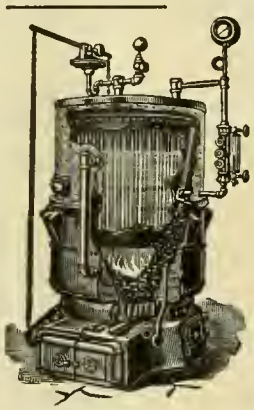


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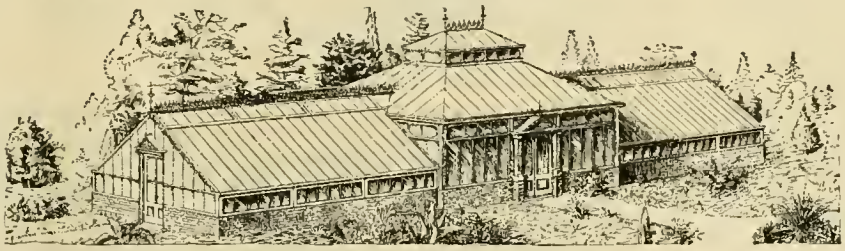
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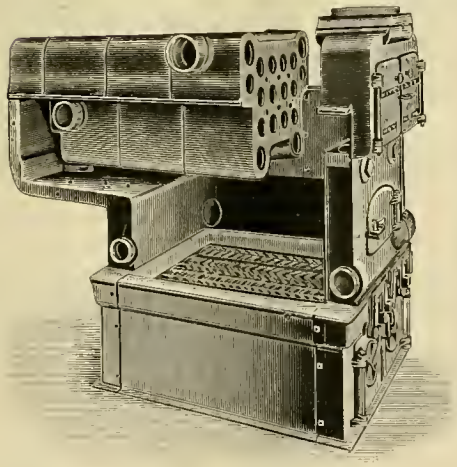
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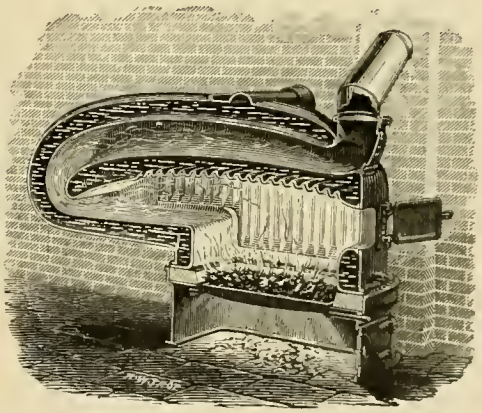




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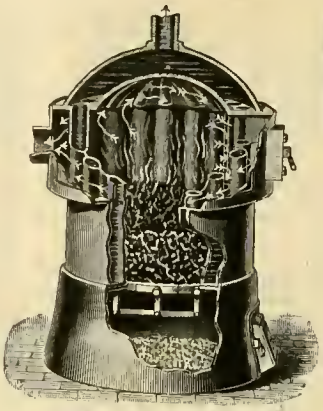
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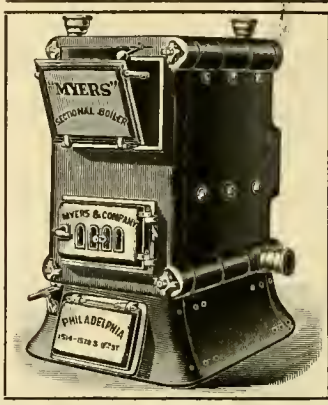
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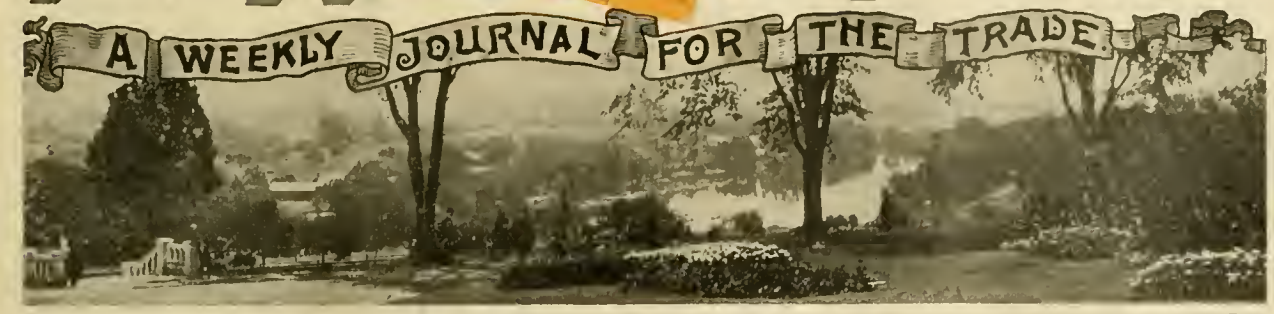
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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—Wm. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fifteenth annual meeting will be held at Detroit, Mich., August, 1899.

OFFICERS-ELECT [to be installed Jan. 1, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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THE EXHIBITIONS.

Chicago.

The two closing days of the Chicago Horticultural Society's exhibition, (November 11-12) were much more satisfactory than the three preceding. The attendance on the 11th was the largest in the history of the society, and that of the following day was well up to the average. While not a financial success on the whole, the two last days of the show went far toward making good the losses of the opening days.

Late awards included prizes for violets to Henry Smith and Crabb & Hunter; for specimen plant in bloom other than chrysanthemums, first J. C. Vaughan, with Acalypha Sanderi, second J. Algots with standard heliotrope; hanging plant other than fern or asparagus, J. Algots with Russelia juncea, second John Cook with Lysimachia nummularia. The final awards for table decorations were made on the last day of the exhibition, and the competitors then stood as follows: First, Klunder-Thiele Floral Co.; second, Charles A. Samuelson; third, Art Floral Co.; fourth, Anderson Floral Co.; fifth, A. Lange. The Kaiserin roses used in this competition by George Wittbold and the Anderson Floral Co. (the latter supplied by the Reinbergs), were exceedingly fine. The orchids used for the Saturday decorations included cattleyas, dendrobiums and oncidiums.

The exhibit of hardy shrubs bearing fruit or richly tinted foliage, from Swain Nelson & Sons, attracted much attention. The most pleasing plants in this group were Symphoricarpus racemosus, Mahonia aquifolia, Berberis Thunbergii, Rosa rubiginosa and Euonymus Europæus.

JOHN THORPE'S JOTTINGS.

Dracæna Godseffiana will be a great factor in parlor decoration. It is distinct and beautiful, grows without much care and is always bright and interesting.

Without doubt Acalypha Sanderi has come to stay, and it will become as popular as any plant introduced in the past decade. I understand that it does well out doors, in window boxes and vases.

Two heaths (Erica Wilmoreana and E. melanthera) were as good specimens as any I have seen in England, where they are grown by the thousand. We must have more ericas. These were exhibited by J. C. Vaughan.

Associated with the ericas was a silver variegated geranium with bright scarlet flowers as double as the blooms of S. A. Nutt. This very attractive variety was named Wm. Langgutt. The flowering geraniums were a grand feature of the show.

There were only two new roses in the exhibition, Mrs. Robert Garrett, which improves on acquaintance, shown by Bassett & Washburn, and Lady Dorothea, by John Dunlop, of Toronto. The latter has tawny flowers similar in shape to the old Safrano but more pronounced in color, with the fragrance of Gloire de Dijon.

In Izanga, a Japanese anemone, Nathan Smith & Son had the most remarkable of the new chrysanthemums. The ray florets are pure white, fluted, twisted and divided, each being three inches long. The cushion-like center, three inches in diameter, is of the purest yellow color. The same growers exhibited two crimsons brighter than Childs, and a bronze reflexed which will be heard from.

John N. May's Mrs. Trainor L. Park looks like a flower which would displace our much admired Bonnaffon, and his Silver Wedding is a superb pure white reflexed flower with broad petals distinct from any other variety. In his Mavourneen we have a distinct creamy flower with flecks of true purple. The flower is of good size and form, with florets reflexed, and I believe it will prove to be a good thing.

Among new carnations, Mrs. T. W. Lawson, from Peter Fisher, was leader, and well deserved all that has been said in its favor. Mr. May's Melba is a beautiful variety of the Mrs. McBurney type, the color being a pure pearl pink. No. 11 from the Chicago Carnation Company, bids fair to take the place of Armazindy, and other seedlings from the same firm showed considerable merit. Mr. Dorner's G. H. Crane hold's the position assigned to it at the last meeting of the Carnation Society.

SUNDRY COMMENTS.

The low cut flower tables displayed the flowers to good advantage.

The Art Floral Company exhibited a novel bed of bird nest ferns, Asplenium nidus.

The display of photographs in color, shown by the aid of lantern slides, was an unexpected advance in this class of work.

The specimen blooms of Frank Hardy

chrysanthemum, brought on from the east by Mr. Herrington, could not have been finer.

Superintendent Rudd has certainly the routine work of these annual shows in excellent order and a well drilled force of assistants.

Uncle John was on hand, taking as much interest as ever, and a very handy man when something had to be explained to interested visitors and patrons.

The reception of visiting florists and patrons was better handled by the officers of the society and the committee of the Florists' Club than during former exhibitions.

Mr. Dimmock said this show with its lighting, decorating, grouping, and the high quality of displays all along the line, was the best he has ever seen in this country. Does Alfred make the same remark at other shows? He says he don't.

It may be stated here that good judges of American Beauty roses were captivated by the fine stock at the show, admitting that it equalled anything grown in the eastern states. The rose Mrs. Robert Garrett, shown by Bassett & Washburn, was in fine shape.

Acalypha Sanderi, posing as plant from our new South Sea colonies, the Philippines, was given a prominent place. Brother Dimmock by the second day was able to testify that it really came direct from that quarter, although he was in considerable doubt about this the first day.

VISITORS.—In addition to those mentioned in last issue the following were among the visitors show week: Geo. W. Doswell, Ft. Wayne, Ind.; F. E. Dorner, Lafayette, Ind.; F. A. Belt, Sterling, Ill.; W. E. Colberg, Des Plaines, Ill.; Mrs. Ella Grant Wilson, Mrs. J. M. Gasser, Mrs. Anna Bartels, E. A. Fetters and wife, of Cleveland, O.; Mrs. C. W. Pike, Racine, Wis.; G. Volk, Max Reitz and F. P. Dilger, of Milwaukee, Wis.; J. H. Hollister and wife, Grand Rapids, Mich.; H. J. Bailey, New York City; Albert Knopf, Columbus, Ohio; Chas. Kintzele, Michigan City, Ind.; Alice L. Barnes, Springfield, Ohio; Thomas Archer, St. Joseph, Mich.; Benj. Thompson, Tama, Iowa; Judson Kramer, Cedar Rapids, Iowa.

Toronto.

The ninth annual chrysanthemum show of the Toronto Gardeners' and Florists' Association was the best ever held in this city. The show opened on November 9 under the most unfavorable auspices; the weather was simply abominable, and as a consequence the attendance for the first two days was very light.

The exhibits were probably not quite so numerous as in 1897 but in quality they were decidedly superior. The hall had been beautifully decorated a short time before for the banquet to Lord Aberdeen and made a most appropriate setting for the display of flowers. A large number of incandescent lamps had been hung in circles from the center of the ceiling making the whole interior a blaze of light and showing the colors of the exhibits in the evening almost as faithfully as the light of day. Mayor Shaw was in attendance on the opening day for the purpose of delivering an address but the attendance was very slim and he deferred his remarks until the afternoon of Saturday. The stage was most beautifully decorated with plants two gigantic Latania Borbonicas occupying the back of the proscenium. One of these obtained the first prize for Exhibition Park and the other second for the Horticultural Gardens.

Fronting these were the exhibits of six specimen ferns for which the Horticultural Gardens took first and Exhibition Park second. On the left was an immense davallia, the fronds of which must have been eight or nine feet in length and which was as perfect and healthy as if growing in its native woods. For this the Horticultural Gardens deservedly obtained first prize, Exhibition Park coming second and Manton Bros. third. On the right of the stage the exhibitors vied with each other for the prize for six pots of blooming callas, the Horticultural Gardens again winning. The wings of the stage were decorated with collections of orchids and here Exhibition Park took first, Manton Bros. second.

In front of the proscenium the general collection of orchids was arranged. For the best three in flower, the Horticultural Gardens took first prize with two plants of Cypripedium insigne and one of Cypripedium Spicerianum. Exhibition Park came second with beautiful flowers of Cattleya labiata, Oncidium crispum and Dendrobium Phalænopsis. To the right and left of these exhibits on the floor of the hall were groups of chrysanthemums, palms, ferns and selaginellas arranged for effect and the arrangement was very effective. Horticultural Gardens took first and Grainger Bros., second prizes here. The groups of foliage plants were excellent, Exhibition Park winning first and Horticultural Gardens second.

One of the finest groups of plants was that of the specimen chrysanthemums on which Robert Gore took first prize with a beautiful plant of Midge which had about 150 good blooms. The display of standard plants was not very conspicuous, Mr. Gore taking first, Horticultural Gardens second, and Robert Sugden third. Mr. Gore also came well to the front in the next exhibits, taking first for three white, Queen, three pink, Viviand-Morel, three yellow, Golden Wedding, and three any color, G. W. Childs.

For the best twelve distinct varieties, single stem, single flowered, Ernest Collins took first, with Exhibition Park, second, and R. Gore third. For twelve white, Goodier & Shawcross came first with Mrs. Henry Robinson. For twelve pink Exhibition Park took first with Viviand-Morel. The best yellows were Major Bonnaffon grown by Ernest Collins, Exhibition Park coming second and Grainger Bros., third. The section for twelve distinct varieties, three plants of one variety in 6-inch pots, surprised many of the visitors by the size of blooms when the number of plants and size of pots were considered. Exhibition Park gained first here.

There was close competition between J. H. Dunlop, Manton Bros., Exhibition Park and Grainger Bros., for the awards for palms, honors being easy. Of small ferns there were creditable exhibits by Grainger Bros., W. Jay & Son, Manton Bros., and the North Toronto Floral Co. Grobber & Wandry showed cyclamens. On primulas the Horticultural Gardens were first and R. Gore second.

Among the cut chrysanthemum blooms J. H. Dunlop took first prize for twenty-first distinct varieties with H. Dale of Brampton, a close second. George Hollis took first for twelve varieties; J. H. Dunlop second. H. Dale took first on vases of twelve pink, white, yellow and any other color, J. H. Dunlop being a close second in each class. For six in vase, white, George Hollis took first. For pink, Jay & Son were first with Viviand-Morel and George Hollis second with Mme. Perrin. For yellows, George Hollis was first with Modesto and Fewkes, Dunlop being second with Major Bonnaffon. On vase of twenty-five, any variety, the competition was very keen, George Hollis winning, with H. Dale second, and Jay & Son third.

J. H. Dunlop showed a magnificent vase of American Beauty which made an appropriate center for the other exhibits, which ranked as follows: Second, H. Dale; third, S. Tidy & Son; fourth North Toronto Floral Co. Dunlop also took first for Bridesmaid, Bride, Sunset, Mme.



EXHIBITS OF A. S. TRUDE (ROBT. MUELLER, GR.) AND CRABB & HUNTER AT THE CHICAGO SHOW.



A VIEW OF THE EXHIBITION AT ST. LOUIS.

Hoste, Mme. Cusin and his own rose, Lady Dorothea. H. Dale took first for Perle, Mrs. Pierpont Morgan, Pres. Carnot and Meteor.

The carnations showed a considerable improvement over former years. Dunlop, Dale and the North Toronto Floral Co. dividing the honors. Violets were good but not very plentiful; for bunches of fifty double flowers the awards were: First, North Toronto Floral Co., second, Manton Bros.; third, Steele, Briggs Co. For fifty single, H. Dale came first, Manton Bros., second, and Steele, Briggs Co., third. The design work was good.

Edwin Utley was first on a specimen Ficus elastica but J. R. Copping captured most of the prizes for decorative plants. E. Tyrrell, D. A. Coulson and G. Mills each came in for their share of the premiums. The school children's competition was one of the features of the show. George Hollis' seedling chrysanthemum, Toronto attracted much attention. It was shown by J. H. Dunlop.

The judges were F. J. Foster, of Hamilton, and Walter Mott, of Philadelphia. S. P.

St. Louis.

Awards at St. Louis chrysanthemum show were as follows: Vase twenty-five blooms chrysanthemums, assorted colors, C. Young & Sons Co.; second, H. Weber & Son; third, E. G. Hill & Co. Vase twenty-four blooms, three varieties, Weber & Son; second, E. G. Hill & Co. Vase fifty blooms, quality and arrangement considered, Wm. Schray; second, E. G. Hill & Co. Vase twenty-five yellow, Michel Plant & Bulb Co., with Golden Wedding; second, W. A. Chalfant with Bonnaffon.

Cut roses: Twenty-five Bride, W. J. & M. S. Vesey; second, Ellison & Tesson. Twenty-five Meteor, W. J. & M. S. Vesey. Eighteen American Beauties, Young & Sons; second, Ellison & Tesson. The next class calling for the same, eighteen Beauties, was taken by Ellison & Tesson. Vase pink roses, any kind, Ellison & Tesson; second, Young & Sons.

Cut carnations: Vase fifty white, W. J. & M. S. Vesey; second, E. F. Overmann, Wabash, Ind. Vase fifty pink, Vesey; second, Weber & Son; third, Overmann. All the winning vases in this class were Triumph. Vase fifty red, H. Weber & Son. Best box of cut flowers, Ellison & Tesson.

Cut chrysanthemums: Vase of white, Nathan Smith & Son; second, Michel Plant & Bulb Co. Twelve blooms Golden Wedding, Michel Co.; second, Hill & Co. Fifty blooms, quality and arrangement considered, Nathan Smith & Son; second, Wm. Schray; third, Hill & Co. Vase twenty-four blooms, twelve white and twelve yellow, Michel Co.; second, Smith & Son.

Cut roses: Twenty-five President Carnot, Ellison & Tesson. Four vases cut roses, fifteen of a kind, Vesey; second, Ellison & Tesson. Twenty-five American Beauty, Ellison & Tesson.

Cut carnations: Vase forty Jubilee, W. J. & M. S. Vesey. Vase of Daybreak, Vesey; second, H. G. Ude. Vase 100 Scott, W. J. & M. S. Vesey. Designs, C. Young & Sons Co.

Cut chrysanthemums: Vase fifty, quality and arrangement considered, Hill & Co.; second, Smith & Son. Vase yellow, Michel Co.; second, W. A. Chalfant. Vase assorted blooms, Hill & Co.; second, Smith & Son. Twelve Major Bonnaffon, Hill & Co.; second, Vesey. Vase fifty, quality and arrangement considered, Wm. Schray; second, Smith & Son.

Cut roses: Twenty-five Kaiserin, Ellison & Tesson; second, W. E. Jordan. Twenty-five American Beauty, Young & Sons Co.; second, Ellison & Tesson. Vase Bridesmaid, Vesey; second, Ellison & Tesson. Twenty-five American Beauty, Young & Sons; second, Ellison & Tesson. Twenty-five La France, Young & Sons.

Cut carnations: Vase 100, H. Weber & Son; second, J. W. Dunford. Vase of yellow, H. Weber & Son; second, H. F. Aue. Table decoration, Ellison & Tesson; second, Young & Sons Co.

Shaw Premiums: Twelve The Queen, Michel Co.; second, Smith & Son; third, W. E. Jordan. Twelve Major Bonnaffon, W. A. Chalfant; second, Vesey; third, S. Wilson & Son, Marion, Ohio. Twelve blooms any other yellow, Max Herzog; second, Hill & Co.; third, Vesey. Twelve blooms any other white, Vesey; second, Hill & Co.; third, H. Weber & Son. Twelve blooms any pink, first, Michel Co.; second, Vesey; third, Wilson & Son. Twelve blooms any variety, introduction of 1896-7-8, Vesey; second, Weber & Son; third, Smith & Son. Best 100 double violets, Ellison & Tesson; 200 single, first, Ellison & Tesson. R. F. T.

Syracuse, N. Y.

The Syracuse show was a grand success, the best Syracuse has ever seen, and the only one that has ever paid expenses. This time we have a nice little balance left after paying all debts. It was held in the Alhambra, a very large hall, the galleries being nicely decorated and divided into boxes which were sold at $10 each. The stage was used for evening entertainments and dancing. In the center of the hall was a raised platform where the orchestra was completely hidden from view by palms, foliage and flowering plants.

For the artistic arrangement of the exhibits we were indebted to our Secretary, David Campbell, manager of Thornden, Maj. Alex. Davis' place, and Thomas Bishop, our park superintendent. The entries were numerous and excellent in character and in connection with the flower and plant exhibit was a fine display of native and tropical fruits; also an exhibit of native ferns of

Onondaga County. Prof. C. E. Hunn, of the Geneva Experiment Station brought a fine exhibit of some thirty-two varieties of cut chrysanthemums, not for competition, and was also one of our judges. In Prof. Hunn's exhibit, which was all excellent, was noticeable a vase of pure white solid incurved blooms, perfect globes in form, marked "12-1895 P. & M." John N. May controls the stock. It might be described as a white Major Bonnaffon, only larger and more globular in shape.

Our old friend, Grove P. Rawson, of Elmira, was on hand with a splendid exhibit and also acted as our chief judge. His floral design was a masterpiece. L. E. Marquisee outdid himself with a magnificent collection of foliage plants, chrysanthemum plants and blooms, carnations and roses and he captured many first prizes. His vase of twelve Golden Wedding was grand, his American Beauties peerless and his large exhibit of carnations attracted much admiration. He also showed a vase of a pink seedling carnation which was awarded a certificate of merit.

John H. Dunlop, of Toronto, sent a vase of roses, a sport of Sunset, which were much admired by the rose growers. Meneilly & Sons captured the $20 prize for the best twelve salmon pink reflexed Japanese blooms with magnificent Autumn Glory. They also showed some fine standards of Georgiana Pitcher and a fine assortment of bush plants and blooms. Mr. Meneilly is the originator of the chrysanthemum Adelaide White which was shown in fine form by Marquisee.

Nathan Smith & Son sent six blooms each of three white seedlings to compete for the White Flyer prize and captured it with No. 18, a pure white reflexed bloom with good stem and foliage. For largest bloom on exhibition, C. A. Phillips, an amateur, tied Marquisee, the florist, Phillips showing a Mrs. Geo. West and Marquisee a Golden Wedding. Both blooms were whoppers but the judges could find no difference in size and so the prize was divided and the blooms presented to our congressman-elect, Mr. Driscoll. Phillips also showed twenty-four fine single stemmed plants, twenty-four varieties. They were noticeable for being very dwarf with large blooms. One Good Gracious was fifteen inches high with a splendid bloom perfectly erect on its stem and a Jeannie Falconer was twelve inches high with an eight inch bloom. Phillips also took first for twenty-four blooms, twenty-four varieties, in the open class, and Marquisee second. The prize for six blooms of Jeannie Falconer, offered by Peter Kay, originator of the variety, brought out two magnificent vases from Phillips and Marquisee; the latter captured the prize. This is the same variety with which Phillips captured the prize for largest bloom at last year's show.

Our secretary, David Campbell, was awarded the silver vase offered by President Betts for the largest and finest exhibit. His was a fine collection, indeed, consisting of palms, foliage plants, orchids, chrysanthemum plants and blooms, besides a collection of choice and rare plants. He also was awarded the prize for the rarest plant or flower on exhibition and for six single stemmed plants of Thornden.

Through the foresight of our president, S. T. Betts, many innovations were added that materially helped to swell our receipts and to him we are largely indebted for our financial success. The stage performance was a drawing card as was also the presence of Chaplin Chidwick, of the ill-fated Maine. Then we had four beautiful young ladies in fancy costumes selling souvenirs of the show that netted us a snug little sum, Miss Betts winning the prize, a beautiful oil painting, for selling the most of them. On our opening night, all attending were presented with carnations and roses. At each corner of the hall were nicely decorated booths for the sale of plants and flowers. L. E. Marquisee, Peter Kay, Bannister Bros. and Walter Meneilly & Son were the owners and decorators of these booths and they proved an attraction to the show as well as remunerative to their owners. C. A. PHILLIPS.



CHRYSANTHEMUM MME. CARNOT AS EXHIBITED BY JOHN N. MAY AT THE PHILADELPHIA SHOW.

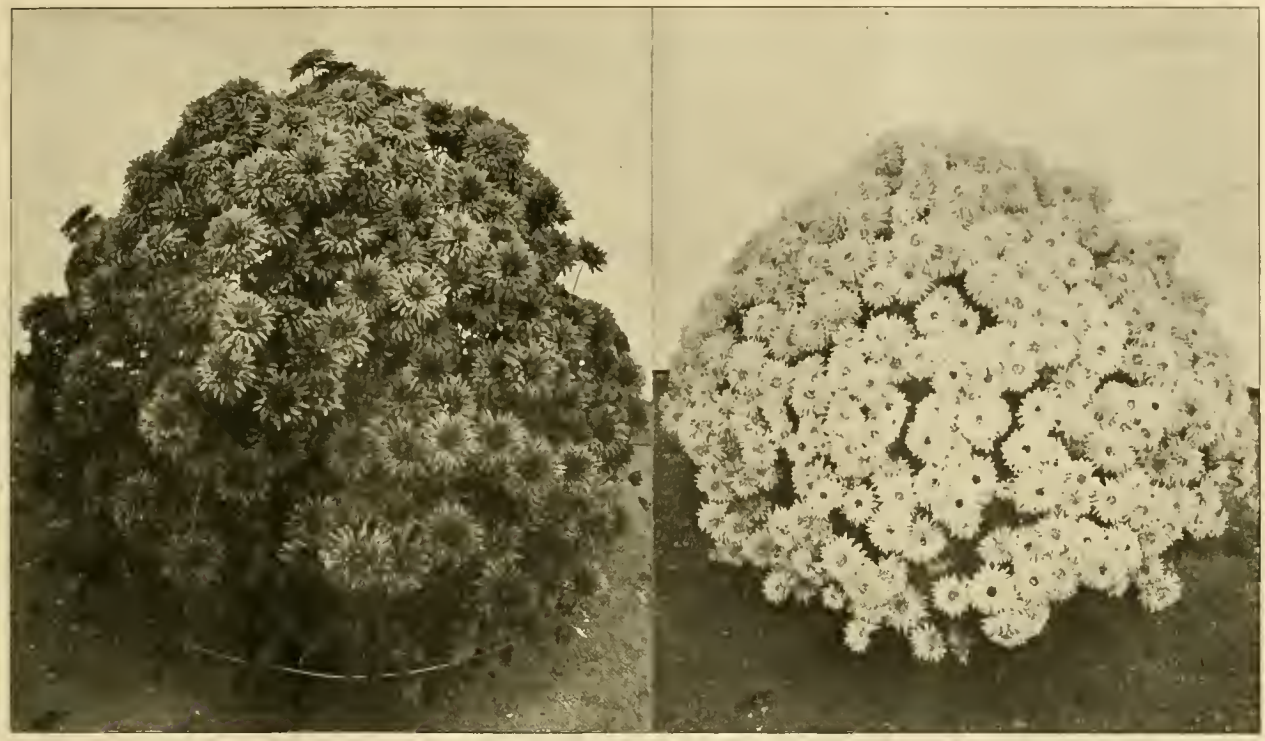
Notes from the Philadelphia Show.

Too much credit cannot be given to the H. A. Dreer Co., Hugh Graham and John Cullen for the part they took in our exhibition. Their displays were large and far out of proportion to the amount of premiums offered, which is the test to which so many exhibitors subject their entries. Dreer's exhibit of new things attracted particular attention from the private gardeners who are always looking out for meritorious new plants. A plant of Acalypha Sanderi with its long red tassels was among this collection. The number of well grown specimens of choice ferns in pans was quite ahead of any of the society's previous displays in this department and to many seemed to be of as much interest as the plants in bloom.

In speaking of the very unique exhibit of Joseph McGregor, I neglected to say it was of geraniums, not chrysanthemums. It opened the eyes of many people who had no idea that these plants could be grown to such perfection. Mr. Shellem's new white carnation, which ran so well against the New England favorite, Mrs. Thomas W. Lawson, was awarded a certificate of merit. The certificate is a prize of itself, but to have a white carnation so good that when in competition with this $5,000 beauty it was a toss-up as to who would get the prize, is something to be proud of. It is a flower that will surely make itself felt in the competition next February.

The mortuary design exhibited by L. A. Jonas sent a chill down the backs of the visitors. It was a representation of a marble cradle or scroll design that is made to lie the length of a grave, the center space being left to be planted with ivy. It was, so to speak, life size, made of white chrysanthemums and Bride roses, the center space being filled with ivy leaves and a cluster of cypripediums. It was well done but it certainly did not lend a charm to the surroundings.

On Friday, in addition to the dinner tables, there were two decorated mantles. Jos. Kift & Son received first prize and Julius Wolff, Jr., second. Mr. Wolff received first for a plateau of chrysanthe-



RED WARRIOR. ARETHUSA.

SPECIMEN CHRYSANTHEMUMS GROWN BY T. D. HATFIELD, GARDENER TO WALTER HUNNEWELL, WELLESLEY, MASS.

mums; John Kuhn, second. On plateaus of ferns and foliage David Cliffe was first. Handle basket, first, Wm. Reider; second, Julius Wolff, Jr. A committee of society ladies awarded the prizes and in the main their work was satisfactory.

As to the financial results, although the attendance was good, there will be but little more on the right side of the ledger than last season. There was election day and wet weather to keep timid people at home. It seems hard that a society so richly endowed should not he able to pay its premiums. The receipts from members' dues, and they amount to considerable, together with the paid admissions are not sufficient to pay the premiums and other expenses of the society. It would seem as if something should be done to give those now interested in the welfare of the society a chance to show what they could do aud not leave it all to the generations to come. K.

Buffalo.

The Florists' Club is certainly to be congratulated upon the success of its annual exhibition, just closed, although the show was not a money maker. The new Glenny block was selected for the display and in it the exhibits, which were very profuse, were installed with a skill which made the general effect very fine. Thomas Clayton acted as superintendent and Adam Graham, of Cleveland, and H. G. Eyres, of Albany, were the judges.

Among the largest exhibitors were the Botanic Gardens, Delaware Park, Forest Lawn and the Buffalo State Hospital, each contributing splendid specimens of decorative plants and novelties. Neubeck & Myers and J. C. Bamberg sent some of the best chrysanthemums in the show. In several classes no premiums were awarded as the exhibits were not judged worthy and in several others there was no competition so that the first prize was won without effort. S. A. Anderson and W. A. Adams each showed excellent made up work but not for competition. The judges awarded prizes as follows:

In classes for six cut chrysanthemums, Wm. Scott, three firsts. Twelve ferns, State Hospital; Scott, second. Twelve decorative plants, Forest Lawn; Scott, second. Six decorative plants, same awards. Collection palms and orchids and plants arranged for effect, Scott, three firsts. Twelve white blooms, Scott; Nathan Smith & Son, Adrian, Mich., second. Twelve yellow, Scott; Smith & Son, second; T. A. Webb, Corfu, N. Y., third. Twelve pink, same awards. Twelve crimson, Smith & Son. Twelve any color, G. E. Fancourt, Wilkesbarre, Pa.; Webb, second. Six white, Scott, Webb, second. Six yellow, same awards. Six pink, Scott; H. B. Buddenborg, second. Six crimson, Smith & Son; J. C Bamberg, second. Twenty-five blooms to a vase arranged for effect, Scott; Bamberg, second. Twelve blooms same, Scott. Twenty-five blooms, Neubeck & Myers; Scott, second. Twelve blooms, Scott. Twenty-four blooms, twenty-four varieties, Smith & Son; Bamberg, second. Fifteen blooms, distinct varieties, Smith & Son; Scott, second; Bamberg, third.

Twelve American Beauties, Scott; C. T. Guenther, Hamburg, N. Y., second. Twelve Bridemaid, Fancourt; Scott, second. Brides, Fancourt; Scott, second. Perle, Scott; Fancourt, second. Kaiserin, Guenther; Kasting, second. Twelve roses, any variety, Fancourt; Scott, second. Largest and best collection, Kasting. Fifty scarlet carnations, Fancourt; Webb, second. Fifty white Scott; Fancourt, second. Fifty pink, Fancourt; Scott, second. Fifty variegated, Scott; Fancourt, second.

Scott was first on three arrangements, in which he had no competition, and was second on bridal bouquet, in which no first was awarded. On wreath Scott was first and Buddenborg second and on a flat bunch Scott was first and Neubeck & Myers second.

Among the week's visitors were: H. A. Hart, Cleveland; Geo. Fancourt, Wilkesbarre; E. H. Butler, Niagara Falls; Mr. and Mrs. C. L. Dole and Thomas Mansfield, Lockport; H. J. Wise, East Aurora; Chas. Hewson and R. C. Avery, West Seneca; R. E. Boettger, Eggertsville; T. A. Webb, Corfu; Peter Crowe, Utica; Walter Mott, Philadelphia; W. J. Palmer, Sr., Lancaster. W. A.

Boston.

The awards at the annual chrysanthemum show of the Massachusetts Horticultural Society, November 8 to 11, were as follows:

Chrysanthemum plants: Display of twelve, named, distinct varieties, J. S. Bailey; second, Mrs. B. P. Cheney. Three Japanese incurved, Mrs. B. P. Cheney; second, J. S. Bailey. Three reflexed, distinct named varieties, Mrs. B. P. Cheney; second, J. S. Bailey; third, Mrs. B. P. Cheney. Specimen incurved, James Garthley; second, J. S. Bailey; third, J. S. Bailey. Specimen reflexed, named variety, Mrs. B. P. Cheney; second, J. S. Bailey. Specimen anemone flowered, named variety, J. S. Bailey; second, Mrs. B. P. Cheney; third, Mrs. B. P. Cheney. Specimen pompon, named variety, Mrs. B. P. Cheney Twelve plants, of twelve varieties, grown to one stem and bloom, in not over six-inch pots, Mrs. A. W. Blake; second, Mrs. A. W. Blake; third, Dr. C. G. Weld; fourth, C. H. Souther. Six plants, red, J. L. Little; second, Dr. C G. Weld; third, E. S. Converse. White, Dr. C. G. Weld; second, C. H. Souther; third, J. L. Little. Pink, Dr. C. G. Weld; second, Dr. C. G. Weld; third, J. L. Little. Yellow, Dr. C. G. Weld; second, J. L. Little; third, Jas

Nicol. Any other color, A. W. Blake; second, Dr. C. G. Weld; third, A. W. Blake. Group of chrysanthemums, without stakes, arranged for effect, limited to one hundred square feet, Mrs. A. W. Blake. Gratuities: Wm. Edgar, begonia Gloire de Lorraine; James Garthley, chrysanthemum Le Colosse Grenobles.

Awards for cut blooms, Josiah Bradlee fund: Twenty-five blooms, twenty-five varieties, Mrs. B. P. Cheney; second, Robert Laurie; third, David Nevins. Six vases of six named varieties, ten blooms each, Waban Conservatories; second, Mrs. B. P. Cheney; third, David Nevins.

Cut blooms, society's prizes: Twelve cut blooms, incurved, named, in vases, Jos. H. White; second, C. H. Souther; third, Dr. C. G. Weld. Japanese incurved, C. H. Souther; second, Mrs. B. P. Cheney; third, N. T. Kidder. Anemone, C. H. Souther; second, Jas. L. Little; third, Dr. C. G. Weld. Six cut blooms, incurved, named, C. H. Souther; second, Jos. H. White; third, John Jeffries. Japanese, C. H. Souther; second, Mrs. B. P. Cheney; third, James L. Little. Japanese incurved, J. H. White; second, Mrs. B. P. Cheney; third, Edward Whitin. Anemone, E. S. Converse; second, J. L. Little; third, John Shepherd. Twelve best varieties, named, introductions of the current year, J. W. Howard. Vase of ten blooms on long stems, pink, named, David Nevins; second, Robert Laurie; third, Robert Laurie. Red, David Nevins; second, Mrs. B. P. Cheney; third, Alex. Frazer. White, Waban Conservatories; second, Mrs. B. P. Cheney; third, David Nevins. Yellow, Waban Conservatories; second, David Nevins; third, Waban Conservatories. Vase of blooms on long stems, arranged in the society's large China vases, Robert Laurie; third, David Nevins; fourth, C. H. Souther; fifth, Miss E. J. Clark. Best seedling, never disseminated, six blooms, white, George Hollis, Peerless. Yellow, Ernst Asmus.

Gratuities: Mrs. E. M. Gill, display of chrysanthemums; H. Dumaresq, two vases chrysanthemums; James Comley, display of chrysanthemums; David Nevins, two vases of chrysanthemums; S. J. Goddard, display of chrysanthemums; Wm. W. Edgar, vase of chrysanthemum Mrs. Weeks; J. Fuller, chrysanthemum Wachusett; James Garthley, display of chrysanthemums; John Jeffries, display of chrysanthemums; Peter Fisher, vase of carnation Mrs. T. W. Lawson; S. J. Goddard, carnations; Carl Jurgens, vase of rose Kaiserin Augusta Victoria; Dr. C. G. Weld, collection. A silver medal was awarded to Ernst Asmus for rose Liberty. John H. Taylor received honorable mention for rose Admiral Dewey, and John H. Dunlop received honorable mention for rose Lady Dorothea.

Providence, R. I.

The annual chrysanthemum exhibition of the Rhode Island Horticultural Society opened November 9 and continued three days. The exhibits of cut flowers and plants were not up to the standard, it being too early for most mid-season blooms. Carnations were never shown in such variety and quantity here before and for quality it eclipsed any former exhibition. The judges were H. F. A. Lange, of Worcester, Mass., and S. J. Reuter, of Westerly, R. I. The various exhibitors won premiums as follows: Wm. Goddard, Alfred Powell, gardener, twelve firsts, eleven seconds, one third; Farquhar Macrae, thirteen firsts, five seconds, one third; Reservoir Greenhouses, four firsts, one second; John Macrae, four firsts, one second; Homogansett Greenhouses, two firsts, four seconds; Wm. Hill, one first; S. J. Reuter, one first; Hazard, Werden Co., four seconds; M. J. Edwards, one second; Fairbrother & Wood, one second, one third.

Gratuities were awarded to N. U. Pierce, Jr., for his seedling carnations Beau Ideal and Dexter Pierce; to Wm. Hill for a table plant; to E. Leuly for chrysanthemum Philadelphia; to the Hazard, Werden Co. for specimen plant of chrysanthemum Naunshon; to Wm. Appleton, Jr., for collection of palms and ferns; to E. J. Johnston for same; to F. Macrae for begonia Gloire de Lorraine; to J. A. Shellem for his new seedling carnation Agnes Shellem.

The exhibition was in charge of Silas H. Manchester, Henry T. Root, Farquhar Macrae, N. U. Pierce, Jr., Fred. C. Hunt and Wm. Hill.



EXHIBIT OF MRS. GEO. M. PULLMAN AT THE CHICAGO SHOW, J. ALGOTS, GR.

Worcester, Mass.

The fifteenth annual chrysanthemum exhibition of the Worcester County Horticultural Society was an unqualified success and was very gratifying to the few enthusiasts who worked early and late to advance the cause of the queen of autumn.

Although the date was all of a week too early to get out the best blooms, the last few days of bright weather helped us immensely to make a good exhibition. As has been the case in former years the display of cut blooms was much superior to the plants shown and the vases of twenty blooms of one variety were the most striking feature in the hall.

On the stage was a very pleasing arrangement of decorative plants and pink and white chrysanthemums in pots; encircling the hall the specimen plants were arranged on slightly elevated platforms and in the body of the hall the cut blooms were displayed on circular tables. Here and there were groups of palms to relieve the mass of color and in the center of each table was a specimen areca. The display of carnations and roses was the largest and the quality of the blooms the best ever shown here.

It seemed to be H. F. A. Lange's show as he captured eighteen firsts, nearly everything in sight. A. H. L.

Mt. Kisco, N. Y.

The fourth annual exhibition of the Bedford Flower Club, which was held in the Mt. Kisco opera house on November 10, 11 and 12, under the management of the Westchester County Horticultural Society, was a gratifying success. No finer chrysanthemums have ever been staged, so the judges say, than those shown here in competition for the various cut flower prizes. C. T. Brill, A. L. Marshall and Wm. Duckham were the principal contributors in this class. In plants J. D. Layng and Herbert Spavins excelled. There were six competitors for the handsome $75 Bailey cup offered for the best twenty-five blooms of not less than eight varieties. Wm. Turner, gardener to W. M. Rockefeller was the winner with an unequaled set. Wm. Duckham, gardener to D. Willis James, came in for a second and W. Scott, gardener to Mrs. Eastman, for a third premium.

Outside of chrysanthemums there were a number of fine exhibits, notable among which were the groups of decorative plants from J. H. Crane and John E. Gorman, cut roses from J. D. Layng, carnations from H. Spavins, violets from Wm. Willis, cannas from A. L. Marshall and a display of fifty varieties of Rex begonias from Mr. Marshall. The exhibition by the school children was most creditable and helped to increase the public interest and patronage materially.

Breitmeyers' Chrysanthemum Show.

The old maxim that "whatever is worth doing at all is worth doing well" seems to hold true in the case of Breitmeyer & Sons, of Detroit. Their magnificent and elegantly appointed store has been transformed this week into a sort of dreamland and the public is treated to a chrysanthemum show the like of which has seldom if ever been undertaken by one florist. The finest of chrysanthemums grown in their establishment, the choicest of Beauties, the cream of carna-



VISITORS AT THE WABAN ROSE CONSERVATORIES, NATICK, MASS.

tions, including their own Pingree, orchids of various hues, shapes and pedigrees, lofty palms and decorative plants —all these are displayed in a way that is both attractive and artistic. Coupled with the display of flowers an orchestra provides sweet music for the many guests. Over 1800 people viewed the display in one afternoon and evening.

Viewed from whatever standpoint, an undertaking of this kind is worthy of emulation. It educates the public, it creates a demand for flowers, it advertises the florist and, incidentally, brings dollars and cents into his pocket.

HOMO.

Portchester, N. Y.

The annual chrysanthemum show of the Westchester Gardeners' Association, November 11 and 12, was very successful. The exhibits were principally from the estates of millionaires and were very fine. Whitelaw Reid was awarded a first prize of $2 for the best six American Beauty roses and $1 for the best twelve white carnations. Mrs. T. C. Eastman, who exhibited two bunches of black grapes, nearly eighteen inches from tip to tip, won a $5 prize. Others who exhibited flowers and fruits were William Rockefeller, Robert Mallery, James M. Constable, T. L. Park, Mrs. T. W. Palmer, W. H. Parsons and E. C. Hoyt. The judges were William Turner, head gardener on William Rockefeller's estate; William Plumb, gardener for Collis P. Huntington; John N. May and Richard Brett.

Visitors at Waban.

The accompanying illustration is from a photograph taken on the occasion of the annual visit to the Waban Rose Conservatories of E. M. Wood & Co. at Natick, Mass. The group is composed mainly of Bostonians with an occasional individual from neighboring states to add further dignity and grace to an aggregation which will hold its own as to solidity and good looks with any similar delegation that side of Buffalo. This chrysanthemum visit to the foremost New England florist establishment is one of the great events of the season among the craft in that section and an invitation to participate is a favor highly esteemed, for chrysanthemums and roses grow at Waban as they are grown nowhere else and Mr. Wood's hospitality is unbounded. The host himself is seen standing at the right of the picture with a bunch of six foot chrysanthemums under his arm.

CHRYSANTHEMUMS.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The committees judging new seedlings will be in session November 26 for the last time this season. Exhibitors should make their entries (for which a fee of $2 is charged for each variety entered) to the secretary not later than the Tuesday of the week the blooms are to be shown. Express charges prepaid and forwarded to any of the following addresses, exhibits will receive careful consideration:

Boston, Mass, A. H. Fewkes, Horticultural Hall, Tremont street.

New York, N. Y., E. Dailledouze, care of New York Cut Flower Co., 119 West Twenty-third street.

Philadelphia, Pa., A. B. Cartledge, 1514 Chestnut street.

Cincinnati, O., R. Witterstaetter, care of Cincinnati Cut Flower Company, corner Fourth and Walnut streets.

Chicago, Ill., C. W. Johnson, care of Illinois Cut Flower Co., 51 Wabash avenue.

WORK OF THE COMMITTEES.

NEW YORK.—F. R. Pierson & Co., Tarrytown, N. Y., exhibited Mlle. Lucie Faure, white, incurved, Japanese; scored commercial scale 86, exhibition scale 80 points. Jas. R. McDonald, Riverdale, N. Y., exhibited Col. D. Appleton, yellow, incurved, Japanese; scored both scales 92 points.

PHILADELPHIA.—C. W. Ward, Queens, L. I., exhibited Admiral Dewey, yellow, Japanese, reflexed; scored commercial scale 87, exhibition scale 85 points.

BOSTON.—Grove P. Rawson, Elmira, N. Y., exhibited Pride, white, reflexed, mentioned in last report as "exhibited without name or number"; scored commercial scale 86 points. E. G. Hill, Richmond, Ind., exhibited Phenomenal, light bronze, Japanese, incurved; scored exhibition scale 87 points. Nathan Smith & Son, Adrian, Mich., exhibited 25—1, amaranth pink, Japanese, incurved; scored exhibition scale 78 points. C. W. Ward exhibited Admiral Dewey, chrome yellow, reflexed; scored commercial scale 90 points. John N. May, Summit, N. J., exhibited Yellow Mayflower, primrose yellow, Japanese; scored exhibition scale 89 points. The same grower exhibited Silver Wedding, white reflexed; scored commercial scale 90 points.

CINCINNATI.—Theo. Bock, Hamilton, Ohio, exhibited No. 97, light pink, incurved, Japanese; scored commercial scale 79 points. Nathan Smith & Son exhibited Shilowa, red, Japanese; scored commercial scale 80 points.

CHICAGO.—E. G. Hill & Co., Richmond, Ind., exhibited Gen. Custer, red, Japanese, reflexed; scored commercial scale 79 points. John N. May exhibited Mavourneen, pink, reflexed, Japanese; scored commercial scale 84 points. Silver Wedding, shown by the same grower white, reflexed, Japanese, scored commercial scale 83 points. Nathan Smith & Son exhibited Izanga, white, lemon disc, anemone; scored exhibition scale 85 points.

ELMER D. SMITH.

New York.

INTERESTING MEETING OF THE FLORISTS' CLUB.—A WEALTH OF VERY FINE EXHIBITS.—THE MATTER OF ANNOYANCES AT THE CUSTOM HOUSE.—W. H. SIEBRECHT READS A PAPER ON BULB GROWING IN AMERICA.—NOMINATION OF OFFICERS.—MINOR MENTION.

The meeting of the Florists' Club on Monday evening, November 14, was one of the most interesting and enthusiastic of the season. All the old "war horses" were present, besides a strong representation of the younger generation. The center of the hall was splendidly decorated with a group of grand ferns, comprising 112 species and varieties from W. A. Manda. At one end was a vase of Ernst Asmus' new rose, Liberty, and at the other end a vase of J. H. Taylor's Admiral Dewey. J. N. May brought two vases of chrysanthemum blooms, including Mme. Lucie Faure, Pride of Ryecroft, Mrs. W. Mease, Silver Wedding, Mavourneen, Mrs. T. L. Park, Phœbus, Directeur Siebert and Yellow Mayflower, and W. A. Manda showed a notable group of ten kinds of asparagus, including retroflexus, decumbens, plumosus, p. nanus, Sprengerii, tenuissimus, Pitcherianus and three unnamed species.

The matter of annoyances sustained by importers through the present administration of customs laws came up and was discussed at length. A number of sufferers told of their losses through inadequate facilities and careless handling of goods in examining and the effect of rough treatment, red tape and delay upon the perishable goods imported for the florist trade was forcibly presented. A suggestion that the government could be held liable for all loss caused by delay in passing goods brought out the pertinent retort that "you never get anything back from Uncle Sam" and John Morris' suggestion that all the present annoyance may eventually benefit the country by encouraging and actually forcing us

to grow all our plants and bulbs here was received with applause. The matter was finally referred to the legislative committee of the S. A. F. and all the members of that committee, Messrs. O'Mara, May and Allen, being present, it was announced that the committee would at once receive from all having complaints to make, statements, dates and specifications regarding the same.

This discussion was a very appropriate prelude to the paper presented by the essayist of the evening, Mr. W. H. Siebrecht, whose subject was the culture of flowering bulbs in America and whose practical remarks on this subject appear in another column. The discussion following the paper was very interesting. That the right soil, the right climate and other requisites for bulb growing are to be found in many parts of this country was shown by many speakers, who instanced recent experiments in Washington, Oregon and other points on the Pacific coast and in Long Island, New Jersey and North Carolina on the Atlantic coast. The development of the tuberose and gladiolus industry and of budded rose growing was pointed out and the question of wages was proved to be of minor consequence, as with American methods and American implements one man could be counted upon to accomplish as much as two, three or four men will do abroad. Predictions were freely made that in a very few years we should be growing not only Dutch bulbs, but azaleas and Japan bulbs in sufficient quantity to supply all home demands. The nomination of officers resulted in the selection of Wm. Plumb for president, J. H. Troy, vice-president, John Young, secretary, and C. B. Weathered, treasurer, who will be the candidates for election at the December meeting.

The outlook in the wholesale cut flower trade is more encouraging and the retailers find enough to keep them fairly busy with regular store trade. Roses have shortened up considerably in supply and at the same time have improved in quality generally and prices are slightly firmer in consequence. Chrysanthemums have reached their height and a reducing stock may now be looked for. The poor quality flowers are pretty well worked off. The average grade of the stock seen in the wholesale stores is much better than last week. It is, however, none too good for even the lower class of buyers, who are, as a rule, hard to suit and as particular regarding "points" as an exhibition judge. Violets have not developed the activity hoped for on account of the horse show and all efforts to advance them to an abnormal figure have failed. Very likely this fact will prove beneficial to the regular violet trade throughout the season as in the past it has been claimed that high prices on violets in the fall have had the effect of a sort of boycott later on. The receipts at present are fortunately light. Carnations are also coming in but sparingly and all that are of good quality find a ready sale.

Traendly & Schenck have added a plant department to their commission business, which has heretofore been exclusively in cut flowers. Twenty-eighth street may yet become as important a center for the plant trade as Twenty-eighth, Twenty-ninth and Thirtieth are in the cut flower industry.

A column decorated with sprays of Dendrobium Phalænopsis, Vanda cœrulea and Adiantum Farleyense in the Bridgeman store is one of the prettiest window decorations to be seen here at present.

Autumn leaves figure conspicuously among the chrysanthemums in Warendorff's window and the effect is good.

Visiting New York: Mr. and Mrs. P. Welch, Boston; Fred A. Danker, Albany, N. Y.; Mr. Vick of Vick & Hill, Rochester, N. Y.; Ed. McMulkin, Boston; Peter Fisher, Ellis, Mass. and J. N. Champion, New Haven, Conn.

Philadelphia.

THE BUSINESS SITUATION.—SUPPLY, DEMAND AND PRICES.—FLORISTS' OPEN HOUSE.—VISITORS.

A little more business is doing and cooler weather is shortening up the crop; this has a tendency to stiffen prices and makes the commission men and growers a trifle more independent. Beauties have advanced the most, a few specials with three-foot stems and over having brought as high as $4 per dozen. Twelve inch stock goes readily at $1 per dozen.

Tea roses are a little more in demand at $3 to $4 per hundred. Special Carnots and Kaiserins bring $8. Carnations are improving but are still plentiful. Violets are aristocratic, $1 being asked for the best. Southerns still sell for 50 cents per hundred. Chrysanthemums are plentiful although there seems to be no glut. Prices range from $3 per hundred to $2 per dozen. Mme. Perrin and Maud Dean are the best pinks. Bonnaffon, Golden Wedding and Modesto the best yellows, and Ivory, Minnie Wanamaker and Western King the best whites. Pot plants of chrysanthemums are selling fairly well.

The open house of the Florists' Club on Wednesday of last week was a great success; there were quite a number of visitors from out of town and all seemed to enjoy themselves thoroughly. Some of the New York contingent had a good time on the alleys but would not allow a record of their scores. Among the visitors were: Eugene Dailledouze, Charles Allen, E. Asmus, Jr., C. Zeller, Chas. Weathered, P. O'Mara and J. Ward, of New York; J. N. May, Summit; F. L. Atkins, of Short Hills; I. Potter, Tewkesbury; Wm. Nicholson, Framingham; Prof. John Hamilton, Harrisburg; W. H. Hoskins, Reading; H. M. Hoffman, Elmira; Wm. Falconer, Pittsburg and W. R. Smith, of Washington. K.

Chicago.

SHORT SUPPLY OF GOOD STOCK CAUSES STIFFER PRICES.—WHEELER TAKES THE ROAD.—FLORISTS' CLUB DISCUSSES A LIVE TOPIC.—NOTES AND COMMENTS.

The supply has shortened very decidedly during the past week and with little prospect for an increased cut during the next few days the indications are that Thanksgiving flower buyers will be compelled to pay pretty strong prices for fair flowers. The reduction in the cut is the result of two or three influences. To begin with, it is off crop season with most of the rose growers, the early bloom being exhausted and the later buds not having developed. The dark weather of the past two weeks has had much to do with retarding the blooms and it is more than suspected that many a grower, foreseeing advancing prices for Thanksgiving week, has been holding back his plants and pickling the product to get the benefit of the rise.

There has been no over-supply in any line in the past few days, although there have been enough chrysanthemums, carnations and violets to meet the demand. However, poor stock has been much more plentiful than good, and particularly is this true of roses. A good rose has been worth 5 or 6 cents and fair Beauties sold readily for from $3 to $4 a dozen.

L. W. Wheeler, of Vaughan's Seed Store, will take the late Burt Eddy's route for this house. V. A. Clark, for some time bookkeeper at the same establishment, formerly of the Burlington, Vt., Experiment Station, has secured an appointment with the Department of Agriculture at Washington, D. C.

A. Herrington, of Madison, N. J., and J. A. Evans, of the Quaker City Machine Co., Richmond, Ind., visited Bassett & Washburn's at Hinsdale and Vaughan's greenhouses at Western Springs early in the week.

At the meeting of the Florists' Club last evening the subject under discussion was "Mildew on Roses and Carnations and the Remedies." The opening was by Wm. Wallace, of Colorado Springs, Colo.

C. J. Stromback, Charles Zapel and James Jensen have been giving chrysanthemum shows of their own this week at the parks of which they have charge. The plants were never finer, exhibition blooms being the rule throughout the conservatories, and large numbers of people were attracted by the splendid showing.

Vaughan, McKellar & Winterson are finding daily sale for some very fine orchids.

The Albion Floral Co., W. J. Coxe and C. J. Deanne, has opened a very pretty retail store on Cottage Grove avenue near Thirty-fifth street.

Mr. W. N. Rudd left for St. Louis November 18 to attend the ninth annual banquet of the Missouri Botanical Garden, to be given this evening at the Mercantile Club.

St. Louis.

BRISK DEMAND CLEARS STOCK OUT OF THE MARKET.—THE SHOW WAS A FINANCIAL FAILURE.—PREMIUMS TO BE SCALED TO COVER DEFICIT.

Trade during the past week has been fairly active, a large wedding having cleaned stock pretty well out of the market. Chrysanthemums have been received in increased quantities but have not been an over-supply, judging from the prices they are bringing. Carnations are scarce, and from present indications will be so for some time.

The chrysanthemum show, from a financial standpoint, was not a success. This may be directly traced to the unfavorable weather, as on Friday, the only good day we had, the attendance broke all previous records, and had the weather only been favorable there is no question but that the club would have come out a long way ahead. The present indications are that we will have to scale the prizes, according to rule 15, about twenty per cent.

Opinion among the florists most actively connected with the exhibition, with one or two exceptions, seems to be very strongly against holding a show next season. This occurs, however, whenever a show fails to pay expenses, but by the time the sober second thought gets to work, the decision generally is that it pays to hold the show, even at a financial loss, and the prospects are that the coming season will see St. Louis with just as good a show as it had the present year.

Will Huckley, of Belleville, who was formerly in business on south Grand avenue, has accepted a position with Alex. Waldbart and has charge of his new store under the Lindell Hotel. R. F. T.

THE AMERICAN FLORIST

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

PRICES of bouquet green have stiffened considerably this week.

WHILE preparing for Thanksgiving and Christmas, remember that Easter falls on April 2 next year.

GIBLIN & Co., Utica, N. Y., have come into possession of the J. S. & M. Peckham Company and will hereafter conduct that concern, making stoves, agricultural furnaces and kettles.

THE FLOWER CITY PLANT FOOD Co., Rochester, N. Y., has succeeded the Walker Fertilizer Co., Clifton Springs, N. Y., in the manufacture of Walker's Excelsior Brand odorless plant food.

EXTRA copies of the Chrysanthemum Number of the AMERICAN FLORIST can be had for fifteen cents on application to the publishers at 324 Dearborn street, Chicago. Some subscribers say this number alone is worth the yearly subscription price.

WE are in receipt of an extremely tasteful souvenir of the recent "at home" (November 15–17) of John Breitmeyer & Sons, Detroit, Mich., in the form of a neatly printed and richly illustrated pamphlet. The text, relating to orchids and chrysanthemums, is of the right character to awaken the interest of the general public in these plants.

IT IS A QUESTION if the grower does not make a serious mistake in his haste to get the first violets, the first chrysanthemums or the first of any other florists' flower into the market. Not to mention the possible injury to plants caused by the hurrying process, it would seem as though the better ambition would be to keep the flowers out of the sight of buyers until their quality is such as to attract and please the public. The first chrysanthemums—what are they? Half developed blooms that two weeks later would scarcely be taken as a gift. Yet these unworthy heralds of this superb race are hurried into the city and an unreasonable price is demanded for them; unreasonable because it is not based on intrinsic value and cannot be maintained beyond a very few days. The retailer, if he invests, is sure to disgust and anger his customer by offering him such material at fancy prices and the customer is prejudiced not only against the retailer, but, what is worse, against the chrysanthemum itself. At the present stage of the cut flower trade any course which may be construed by the buyer as an attempt at "roasting" is the sheerest folly and is bound to react with disastrous effect on a business, the condition of which now is that it cannot afford to take any chances in its relations with the public. As to the first violets, every florist knows that they are practically worthless, and no matter what price may be set upon them they are no credit to anyone. Here the retailer who invests suffers most. A young man buys the trash and sends it to a young lady thinking to please her because these are the first violets of the season. She makes a mental note of their condition and two weeks later will not hesitate to inform her friend of the lovely violets in B.'s window, so beautiful as compared with the rubbish sent her from A.'s store a few days ago. Fashionable people, especially those having greenhouses of their own, occasionally know and understand the situation and will take the first violet at its worth, without prejudice, but the great majority of buyers do not care to listen to explanations or reason out these things and consequently an irreparable injury is done to the industry right at the opening of the season. By all means keep your violets out of sight until they are worthy of the name.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

John H. Taylor, Bayside, N. Y., has registered at the secretary's office the new rose, Admiral Dewey, a light pink sport from Mme. Caroline Testout.

WM. J. STEWART, Sec'y.

A Sample of Many Letters.

AM. FLORIST CO.—Enclosed find copy for one-eighth page advertisement in next edition of your directory. Please put my name in large black type in alphabetical list, for which I will pay one dollar. I have had a dozen directories and your last edition is the best I have seen yet.

SAMUEL C. MOON,
Morrisville, Bucks Co., Pa., Nov. 12, '98.

Greenhouse Building.

Dighton, Mass.—Lewis Bros., one violet house.

Lexington, Mass.—N. F. Comley, commercial house 20x100.

No. Attleboro, Mass.—J. J. Nolan, two commercial houses.

West Medway, Mass.—Clinton Howe, one forcing house.

The American Florist Company's Directory.

The final corrections are now being made for the next edition of our directory of florists, nurserymen and seedsmen, to be issued January 1, and we trust our readers will promptly inform us of any business changes which have come to their notice within the past year. Advertisements and orders for the use of large type in names of alphabetical list should be mailed as early as possible.

Proceedings of the Society of American Florists.

The report of the proceedings of the fourteenth annual convention of the Society of American Florists, held at Omaha, Neb., August 16–19, has come to hand. The book of 164 pages is presented in its usual complete and excellent style, showing much carefulness and judgement in the preparation of the matter. The papers, reports and discussions are given in detail, embracing a large amount of valuable information. Lists of the new introductions of the year are specially compiled for this work, and for reference purposes these alone are worth the annual membership fee. The index is very complete, and the volume as a whole reflects much credit on Secretary Stewart. President-elect Rudd's portrait appears as frontispiece.

The Dutch Horticulturists.

At the October meeting of the Dutch Horticultural and Botanical Society, held in Amsterdam, the floral committee made the following awards: First-class certificates to T. E. Houtvester for Chrysanthemum President Nonin and C. Soleil d'Octobre; Egbert Kloosterhuis for Populus trichocarpa, Pyrus erythrocarpa, Stephanandra Tanakee and Ulmus argentea albo-marginata; C. Meynen for Vriesea hybr. retroflexa × brachystachys. Certificate of merit was awarded to H. D. Willink van Collen for Iochroma Warsewiezi.

Attention! S. A. F.

Owing to numerous complaints regarding delays in passing plants through the New York custom house, the New York Florists' Club, by resolution passed at its last meeting, referred the whole matter to the Legislative committee of the S. A. F. The committee desires that all florists who have suffered by unnecessary delays in passing through the New York custom house, or whose invoices have been raised beyond purchase price, shall communicate the facts in writing at once to the chairman of the committee, 35 and 37 Cortlandt street, New York City.

PATRICK O'MARA.

Rusted Pipes.

ED. AM. FLORIST:—Two years ago when we built our greenhouses we put in 2-inch wrought iron pipe and we notice this year that it is beginning to rust very badly. We can break off large cakes in many places, and we are afraid our pipes will soon wear out if we do not get something to put on them that will stop this rust. We desire, of course, to apply something that will not hurt the plants. Some of our ¾-inch pipes have rusted out already. Can you recommend anything? T. S. & F. Co.

The best mixture for this purpose is composed of linseed oil and lamp-black, enough of the latter being used to give a fair body to the paint. This gives a dull rough surface which will radiate more heat than asphaltum and other glossy paints, which are sometimes used.

Catalogues and Cut Flower Price Lists Received.

Lehman Bros., New York and Chicago, wagon heaters; Pruning Shear Co., Fremont, Ohio, shears; Dayton Nurseries, Dayton, Ohio, fruit trees; A. F. Mosby, Richmond, Va., fruit and ornamental trees; Roanoke County Nursery, Salem, Va., fruit trees; Chicago House Wrecking Company, Chicago, Ill., second hand material; Herb & Wulle, Naples, Italy, seeds; Holton & Hunkel Co., Milwaukee, Wis., cut flowers; W. A. McFadden, Cincinnati, Ohio, cut flowers; Eastern Chemical Co., Boston, Mass., fertilizers; Wm. Walter Westgate, Houston, Texas, decorative evergreens; Hercules Woodenware Co., Chicago, Ill., wooden goods; Irvington Nursery, Irvington, Ind., trees and vines; J. M. Thorburn, New York, N. Y., seeds; American Jadoo Co., Philadelphia, Pa., fertilizer; P. Lambert, Trier, Germany, roses; Ellis & Pollworth, Milwaukee, Wis., cut flowers; South Side Floral Co., Springfield, Ill., verbenas; Cincinnati Cut Flower Co., Cincinnati, Ohio, cut flowers; Bassett & Washburn, Chicago, Ill., cut flowers.

The Cultivation of Flowering Bulbs In America.

[*Read before the New York Florists' Club, November 14, by William H. Siebrecht.*]

This subject is certainly nothing new to European bulb growers, but entirely new and uncertain to growers in this country on account of the lack of experience and trial to try and find the right way of doing it, the right soil, the right location and the right temperature. When once these are found in this extensive country of ours—in which there is a greater variety of land than in any other—we will be able not only to keep our money at home but to supply other countries with our products.

Certainly, undertakings of this kind take patience, time and capital, of which some people have plenty, and would gladly invest the same, if they only knew how to go about it. The soil should be rich and sandy, or nearly so, for easy working; easy for water to drain; easier to force and to ripen the bulbs better; also to give a healthier and a fine appearance to bulbs when put on the market. Furthermore the land should be situated so as to be almost level, and can be subirrigated by canals and ditches through which the water is supplied, and kept at all times in reach of the roots of the growing bulbs, at distances of 500 feet or more, with smaller ones crossing these.

The principal and main point is to keep the water as much as possible on a level at all times of their growth, which will prevent them from being checked for the want of moisture. This is the reason why they cannot be grown successfully everywhere, as the necessary moisture is not on hand in times of need, and land should be no less than three feet and no more than six feet above the water level. The climate for all sorts of Dutch bulbs should be a moderate temperature; not too warm in winter, nor too hot in summer, would suit them best. Bulbs when planted in the fall, in the fields, can stand quite cold weather, after taking root, properly covered with some kind of litter to keep the sun off, but after their winter nap, don't like to be checked by high raw winds in the early spring. Therefore, hedges for wind breaks are advisable, and if neatly trimmed, will be ornamental, and will also keep the cold winds from sweeping the fields, and injuring the tender growth.

After foliage once starts to develop, coverings must not be removed too early for a late frost will injure and check their growth. Bulbs produce but one crop of leaves, and if badly injured, will ruin the crop entirely. The land is generally trenched to a depth of three or four feet, heavily manured, and, to absorb superfluous strength, is planted with potatoes. After harvesting, hyacinths of all kinds are grown on such soil; tulips, as a rule the second year, and crocuses the third year. Daffodils, double and single, and even spiræas like a rich, heavier and lower situated piece of ground, well moistened, whereas lilies, gladioli, crown imperials, lilies of the valley, ixias, ranunculi and scillas will do better on higher situations.

The main question of growing bulbs in this country is wages. Compared with Europe, our bulbs would cost fifty per cent more if proved to be grown here just as good, and in the same length of time as in Europe, and to profit at all, a high duty must be levied. Roman hyacinths, paper white narcissus, freesias, etc., or French bulbs are generally grown at the foot of mountains, in a clay-like soil, which will retain the moisture longer. These need a warmer climate altogether; they can stand but a few degrees of frost, but can endure the heat better.

CARNATIONS.

CULTURAL NOTES.

November 19.—Chrysanthemums will soon be on the wane, the holidays are approaching and we carnation growers can look for better returns for our product. To have the super-excellent grade of blooms that are now demanded when a fair price is asked we must have our plants in the best condition possible. With some growers this necessitates the application of liquid manure, with others commercial fertilizer and with some manure as a mulch.

Soil has considerable to do with the choice of a method of applying a stimulant and each grower will have to use his own judgment. Until this season I have never had occasion to use a fertilizer in any form before about February 1, but this year, owing to the drought of the summer, my plants were in condition for a stimulant as soon as they had taken good hold in the houses and about three weeks ago I applied a mulch of well rotted manure. This was given with some doubt as to the result but nothing except good has resulted. Liquid manure applied ever so carefully to my soil has always been productive of more harm than good, but with this mulch the flowers are improved in size and substance and the plants are quite perceptibly benefited.

In making the application the soil was first stirred very slightly, the manure was sifted and none of it was put around the stems of the plants, but between the rows only. After the mulch was laid the houses were well watered. Three weeks after the application the manure had become so thoroughly incorporated with the soil that it could no longer be considered in the light of a mulch.

Care was used that the temperature of the houses was kept normal, as an increase of food and an increase of temperature at the same time would induce a soft growth and weak stemmed flowers that would be too lacking in substance to ship, while a decrease of temperature coincident with the application of extra nourishment to the plant would produce a groggy condition of the plant and an increased percentage of split calyxes.

With the approach of the holidays we should strive for our heaviest crop and the ready market will bring good returns for blooms of extra quality. In addition to the application of a stimulant we must also attend to disbudding carefully, and to supporting the flower stems so as to have them straight. Disbudding is a simple matter which can, however, be abused by a careless worker. About the only necessity is to see that buds are taken off small enough to be of some benefit to the terminal bud left standing and that in taking off the side buds the leaves are not broken nor the stem skinned. Quite as important as disbudding is the matter of supporting the flower stems, which is neglected in a great many establishments.

Another thing conducive to the production of extra blooms is the trimming of the plant by cutting out all weak branches and especially any which do not show a good flowering shoot. I do not hesitate to do this over my whole place but to any who are in doubt about the paying part of it I would recommend that they try it on one row of each variety and leave the others growing along in the usual manner, to see for themselves which method they prefer for another season. ALBERT M. HERR.

General Notes on Chrysanthemums.

It is advisable now to note the good or bad qualities of the different varieties, and also whether or not they have come up to the standard under the treatment to which they have been subjected. There are many little things which can be noted now that will be of the greatest assistance another year. For instance, note the difference in color and form of the blooms that were taken on the crown or terminal bud, also the height of growth and, most important of all, whether they have been quick and ready sellers.

From personal observation of the Chicago market it seems that most growers have an over supply of Mrs. Henry Robinson, the dealers being loaded down with this variety, a great deal of it being left unsold, although this is scarcely to be wondered at, as the majority of this stock is sent in just as soon as the blooms have begun to unfold their petals and in this state they give poor satisfaction to the buyer. Yellow Queen was a good seller when well done as also were Ivory, Major Bonnaffon and Mrs. Jerome Jones. The keeping qualities of these old standbys is what counts so much in their favor. This has been a good season for pink varieties, that is, so far as good deep color is concerned. I have seen some extra fine colored Viviand-Morel and Maud Dean. Pink Ivory was much better in color this season than last. Mrs. Perrin was one of the last to set its buds and made five or six feet of growth while other seasons three feet was its height. Glory of Pacific was grown in large quantities for an early pink, it being a good grower and, while a little off on color, there is not anything in sight as yet to displace it. Among the novelties of 1898 which we have had on trial we like Solar Queen as a second early yellow but to get it full to the center it must be taken on the early crown, though personally I much prefer the style of the flower when taken from the second crown, even if it does show a little center. As regards size of bloom and freedom of growth this variety is all that can be desired.

Autumn Glory has proven to be a good grower and a fine large flower of even color, but whether it will prove a good seller cannot be told as yet. It will have to be well done to show up as it should. The blooms of the Frank Hardy I have seen so far have been wrong side up. We get the blooms on their side and upside down and every other way except the right one. We cannot find a place for Yellow Fellow, as there are so many other fine yellows that are ahead of it, though it makes a fine growth for specimen plants or standards. Wm. H. Chadwick is very late with us and it is too early to speak of it as yet. The same may be said of Mrs. C. H. Pierce, but we find the latter to be showing considerably more bronze than it did last season.

After the blooms are cut pick out the best stools for stock, properly label them and plant them in a light, airy place where the temperature can be kept 40° to 45°. Keep the young growths free from black or green fly and be careful to have an extra supply of such varieties as are poor propagators. C. W. JOHNSON.

Boston.

AFTER THE EXHIBITION.—THANKSGIVING PREPARATIONS.—GLOIRE DE LORRAINE GAINING A POSITION.—A JAPANESE SALE.

The process of recovery from the excitement and diversions of the chrysanthemum show and the preliminary visits to the many interested growers is slow, and until the local toilers get well into harness again there will be a scarcity of interesting events in this neighborhood. The big crowd of visitors from outside localities melted away with the closing of the exhibition, Mr. Hurrell, of Lager & Hurrell, alone remaining as a reminiscence of a very pleasant company. Now the thought uppermost with all is how to make the best of the Thanksgiving trade. This New England holiday is always a fairly profitable season for the local florists but there is no special rush and no advance in price of flowers, nowadays, unless a sudden and severe wintry spell should come just in time for it. All kinds of stock are well represented and the demand is as steady as could be expected, for the season. Chrysanthemums have been coming in rather heavy for the outlet and there have been several disastrous breaks, but this applies more especially to the medium grades and the extra choice blooms are holding their own fairly well.

Begonia Gloire de Lorraine is a central attraction in several of the store windows. The public are beginning to realize the value of this beautiful flowering plant and, its good keeping qualities as displayed at the exhibition last week being now recognized, it will soon overcome the prejudice from which other begonias have suffered on account of their short-lived character after being taken from the greenhouse.

There was a very extensive sale of Japanese dwarfed evergreens and other curios at one of the auction rooms last week and prices were paid, in many cases, far in excess of what a florist could get for the same goods.

Detroit.

BAD WEATHER AND POOR BUSINESS.—YELLOW CHRYSANTHEMUMS AT A FOOT BALL GAME. — NOVEL FUNERAL DESIGNS. — NOTES.

There has been too much rain and business is poor in consequence. J. F. Sullivan made a hit with yellow chrsanthemums on Nov. 12, the occasion being a U. of M. foot ball game. George Leadley has been making a nice display of pink chrysanthemums, but this flower is too plentiful to be profitable this year.

Several of our florists have sent out invitations to what they call "fall openings."

In my account ot our trip to Mt. Clemens I should have written Mr. Robert Klagge instead of Mrs. Klagge.

B. Schroeter made two novel designs this week for the funeral of a furniture man. One was a bedstead 5x6½ feet, covered with a blanket of Mayflower chrysanthemums and the other an extension table 3½x4 feet. R. F.

Milwaukee.

BINZEL & KELLNER'S FLOWER SHOW—BUSINESS NOT BRISK.—JOTTINGS IN THE TRADE.

Most all the flower stores have made more than the ordinary display during the past week. Wm. Edletsen's store was very tastefully arranged and quite a stock of beautiful flowers shown.

Binzel & Kellner's opening attracted quite a large number of people. The flowers in competition were good but there were not many entries. Adam Zender was first on roses, except on Perles, where Jacob Meyer won. Mr. Zweifle was ahead on carnations and A. Billings on chrysanthemums. August Schueneman's violets did Oconomowoc credit, but owing to the number not being correct, were awarded no prize.

The prettiest window decoration was at Volk & Stewart's, a rustic landscape effect.

While there are quanties of flowers being used in a quiet way, there are so many doing retailing that no one feels that trade can be called brisk. Good violets have been cleaned up all along. Stevia was very prominent and effective at the hardwaremen's banquet this week. Ben. Gregory will decorate for the Calumet Club Thanksgiving anniversary. E. Haasch displays a good lot of pink cyclamen in his window. C. B. W.

Buffalo.

TRADE AND WEATHER FINE.—KASTING PLEASED AT PITTSBURG. — FLORISTS' CLUB IS PROSPERING.—PETER BARR IN TOWN.

The weather and trade are both excellent for the season and the stock coming in is very good. Foot ball is the rage just now and Palmer, Scott and Anderson all have very pretty and appropriate window decorations.

W. F. Kasting is greatly pleased with his business venture at Pittsburg. Fred. Stokes is his manager there and we wish them both success.

The Florists' Club has been meeting at Kasting's store for the past three months and as a host he is most successful. The club is prospering as six new members have been elected in the past two weeks.

Some of the best chrysanthemums in this market come from Jerry Brookins, Orchard Park, and the best violets in Buffalo are those from J. W. Feeter, Highland Park.

Peter Barr, the famous London seedsman and daffodil specialist, has been the guest of Wm. Scott. Other visitors were Walter Mott, Joseph Rolker and George Fancourt. W. A.

NEWS NOTES.

WOODSTOWN, N. J.—Isaac B. Coles is shipping large quantities of fine violets to the Philadelphia market.

EAST ORANGE, N. J.—C. A. Sands has completed a carnation house and violet house at his country place at Manchester, Vt.

TRENTON, O.—The Greenwood avenue greenhouses are now under the management of Mayor Harry E. Baslow of the Mercer pottery.

ALEXANDRIA, VA.—Arthur Hebel, a well versed Louisville florist, has arrived to take charge of a section of the establishment of J. Louis Loose.

SEDALIA, MO.—Chas. Koeppen's greenhouse was gutted by fire on the morning of November 10; loss $400, insurance $350. Mr. Koeppen considers it the work of an incendiary.

NEW ORLEANS.—The efforts of our Horticultural Society to organize a bowling club among the florists and gardeners have thus far met with little success but we shall doubtless be in line during the winter. M. M. L.

SPOKANE, WASH.—H. M. Sanders has opened a branch store at 718 Riverside avenue.

POMFRET, CONN.—Thos. Beattie, who has been engaged as a florist for many years in Newport has come to Pomfret to take charge of the extensive private greenhouses of Mrs. Clarke.

FORT DODGE, IA.—P. L. Larson is growing a general assortment of stock this season and has some very fine chrysanthemums. His roses, carnations and decorative plants are also good and are meeting with an encouraging sale.

ST. JOHNSBURY, VT.—C. F. Gibbs gave a public exhibition at his greenhouses on November 4 and 5. In the evening there was a brilliant illumination with lanterns and candles and visitors were present in large numbers.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By first-class fireman and steamfitter. Address Y N, care Am. Florist.

SITUATION WANTED—By lady with florist, bookkeeper. MISS BURT, 6826 S. Park Ave., Chicago.

SITUATION WANTED—By rose grower, married man. Chicago references. Address T T, care American Florist.

SITUATION WANTED—By all-round workman on or before Dec. 1st. Good fireman, propagator, etc. Address N Y, care American Florist.

SITUATION WANTED—By a young man, 22, as assistant rose grower; 5 years' experience in greenhouse. A1 references. 407, care Am. Florist.

SITUATION WANTED—At once, by English grower well up in growing for market Low terms accepted for start. A W W, care Am. Florist.

SITUATION WANTED—By a good general grower, long experience, sober and steady; married. Good references. FLORIST, Gen. Del'y, Davenport, Ia.

SITUATION WANTED—In seed business, 15 years' experience as salesman, wholesale and retail. G. MCC., 3828 Glenway Ave., Price Hill, Cincinnati, O.

SITUATION WANTED—By an experienced grower of cut flowers and plants. First-class designer and decorator; 26 years of age; German, American born. Chicago preferred. G H, care American Florist.

WANTED—Please send catalogues and price lists to ADOLPH DIETERICH & CO., Columbus, Miss.

WANTED—Partner in wholesale business in N. Y. City. Established and good business. Address M, care Am. Florist, 67 Bromfield St., Boston.

WANTED—An offer to buy or rent greenhouses in a good city of 60,000 inhabitants. A good chance for the right man. Address J K, care Am Florist.

WANTED—2400 feet 10x12 or larger size single or double and 2400 feet rafters. No objection if second-hand material. State price. Address J. K. POSTMA, Princeton, Ky.

WANTED—To know the whereabouts of Fritz Schaefer, of Artern, Germany, said to have worked for florists around Chicago. Address EMIL BUETTNER, Park Ridge, Ill.

WANTED—A good man for palms, ferns, orchids and general greenhouse work; must be competent. References requested with application. H. F. HALLE, 548 W. Madison St., Chicago.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

A BARGAIN.

For Sale, one No. 2 Standard, Jr., hot water boiler made by Giblin & Co., Utica, N. Y.; will carry 600 feet radiation; second hand, good as new, at $60 net cash.

M. E. CONDON, care American Florist.

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AND FROM EVERY POPULAR FLORIST IN AMERICA.

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Assorted in 25 Varieties.

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387 Broadway, New York City,
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5 State Street, Boston, Mass.
C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

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A Weekly Illustrated Journal.

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The "GARDENERS' CHRONICLE" has been FOR OVER FIFTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, much of the information furnished is of such general and permanent value, that the "GARDENERS' CHRONICLE" is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

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New Illustrated Catalogue Free for the Asking. 25 N. 41th St., PHILADELPHIA.

Wholesale Flower Markets

CINCINNATI, Nov. 17.

Roses, Beauties, select	20 00@30.00
" " medium	10.00@15 00
" Brides	3 00@ 4.00
" Bridesmaids	3 00@ 4 00
" Meteors	4.00
" Perles	2.00@ 3 00
Carnations	@1 50@ 2 00
Lily of the valley	4 00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00
Chrysanthemums	5.00@15.00

ST. LOUIS, Nov 17.

Roses, Beauties	3 00@20 00
" Meteors	2.00@ 4.00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	1.00@ 3.00
" Kaiserins	2.00@ 5.00
Carnations	1.50@ 2 50
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Chrysanthemums	5.00@25.00
Violets, California	.50
" single	.25

MILWAUKEE, Nov. 17.

Roses, Beauties, long, per doz.	1.50@2.00
" " medium " "	1 00@1.25
" " short " "	75@1.00
" Brides, Bridesmaids	3 00@ 4.00
" Perles	3 00@ 4.00
" Meteors	3.00@ 4.00
" Kaserins	3.00@ 5.00
Carnations, fancy	1.00@ 1.50
" common	.50@ .75
Smilax	12.50
Adiantum	.75
Asparagus	50.00
Violets	.50@ 1.00
Chrysanthemums, common	.50@ 1 00 per doz.
" fancy	1 50@ 2.00 "

LOUISVILLE, Nov. 17.

Roses, Beauties, per dozen	.75@2.00
" Brides, Bridesmaids	2.00@ 4.00
" Meteors	2.00@ 4.00
" Kaiserins	2.00@ 4 00
" Perles	1.50@ 3.00
Carnations, fancy	1.50@ 2.00
" common	1.00
Violets	.50@ .75
Smilax, per dozen	1.25@ 2.00
Adiantum	.75@ 1.00
Asparagus, per string	.50
Chrysanthemums fancy per doz.	1.00@1 50
" com. " "	.77@1.00

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WHOLESALE FLORIST

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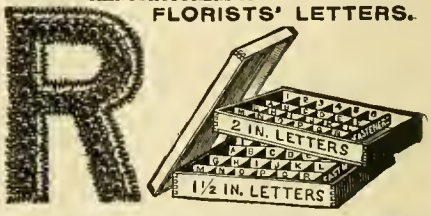


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CHRYSANTHEMUMS.... Per Doz.

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MEDIUM..... .50 to 1.25

PRICE LIST Per 100

Brides, Bridesmaids, Meteors $4 to $6.00
Perles..... 3 to 5.00
Carnations..... 2 to 2.50
Carnations, fancy..... 4 to 6.00
Valley..... 4 to 5.00
Asparagus, per string, 50c
Smilax..... 10 to 12.50
Violets.....1.25 to 1 50
Common Ferns, per 1000, 1.50.....20c
Adiantum.....75c to 1.00

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AM. BEAUTY, extra long stem	$4.00 to $5.00
" 24-in. stem	3.00 to 3.50
" 20 "	2.50
" 15 "	1.50 to 2.00
" 12 "	$1.25; 8-in., 1.00
METEOR.....per 100,	6.00 to 8.00
BRIDESMAID "	6.00 to 8.00
BRIDE..... "	6.00 to 8.00
KAISERIN..... "	6.00 to 8.00
PERLE "	3.00 to 5.00
CARNATIONS "	1.50 to 2.00
" good "	2.00 to 3.00
" fancy "	4.00 to 5.00

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Wholesale Flower Markets

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Roses, Beauties, extra long, per doz...	4.00
" " 24 inch " " ..	3.00
" " 20 " " " ..	2.50
" " 15 " " " ..	1.50@2.00
" " shorter.....	1.00@1.25
" Brides	3 00@ 7.00
" Kaiserins.....	4.00@ 7.00
" Bridesmaids.	4 00@ 7.00
" Perles.....	3.00@ 5.00
" Meteors.....	4.00@ 8 00
Carnations.....	2.00@ 3 00
" fancy.....	4 00@ 6.00
Lily of the valley	4.00@ 5.00
Adiantum	1.00
Common ferns.....	.20
Smilax.....	12.00
Asparagus.....	40.00@50.00
Violets	1.25
Chrysanthemums .. per doz.,	1.00@ 2.00

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PHILADELPHIA, Nov. 16.

Roses, Teas	2.00@ 4.00
" " extra	6 00@ 8 00
" Beauties, extra	25 00@35.00
" " firsts	12.50@16.00
" " seconds	8.00@10.00
Carnations	.75@ 1.50
Lily of the valley	3 00@ 4 00
Asparagus strings	.35 00@50.00
" Sprengerii per bunch	.50@1.00
Smilax	12.00@15.00
Violets, double	.50@ 1.00
" single	.35@ .50
Chrysanthemums	6.00@16.00

BOSTON, Nov. 16.

Roses, Beauties	5.00@20.00
" Kaiserins	2.00@ 8 00
" Brides, Bridesmaids, Meteors	1.00@ 4.00
Carnations	.50@ 1.50
Lily of the valley	2.00@ 4.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00
Chrysanthemums	2.00@10.00
Violets	.50@ 1.00

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ST. LOUIS CUT FLOWER CO.

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1620 Olive St.
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...GEO. M. KELLOGG...

Largest Grower of... in the West. Cut Flowers

Give us an order and we will please you.

Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO.

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VIOLETS, ROSES, CARNATIONS.

The finest ORCHIDS in the City Always on hand.

50 WEST 30TH STREET. NEW YORK CITY.

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Top Grade

BEAUTIES, BRIDES, BRIDESMAIDS.

Extra Carnations.

JOHN I. RAYNOR, 49 West 28th Street, NEW YORK.

Decker, Blauvelt Co.

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42 West 28th Street, NEW YORK.

CONSIGNMENTS SOLICITED. Telephone 2387-18th St.

Shipping orders will receive prompt and careful attention.

WALTER F. SHERIDAN,

WHOLESALE **FLORIST**

39 West 28th Street, NEW YORK.

Roses shipped to all points. Price List on application.

ASPARAGUS PLUMOSUS NANUS!

STRINGS 8 TO 10 FEET LONG, 50 CENTS

W. H. ELLIOTT, BRIGHTON, MASS.

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CUT FLOWERS,

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Cut Flower Exchange. NEW YORK.

Telephone 1054-38.

JOHN YOUNG,

ROSES, CARNATIONS, VALLEY

and all other choice cut flower stock.

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ROSES VIOLETS LILIES

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NEW YORK

CARNATIONS Telephone 913-38.

Choice Carnations Choice Roses

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NEW YORK CITY

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FLOWERS ALL KINDS

PLENTY OF THEM AT

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J. J. PERKINS. ESTABLISHED 1872. R. POTTER.

J. J. PERKINS & CO.,

Wholesale and Commission

FLORISTS...

52 West 29th St., NEW YORK.

Wholesale Flower Markets

NEW YORK, Nov. 16.

Roses, Beauties	5.00@20 00
" Bridesmaids, Brides	.50@ 3 00
" Morgans, Perles	.50@ 2 00
" Niphetos, Cusins	.50@ 1 00
Carnations	.50@ 1 25
" fancy	2.00@ 3.00
Lily of the valley	2 00@ 5.00
Smilax	8 00@15 00
Asparagus	35.00@50 00
Cattleyas	20 00@25 00
Adiantum	.50@ .75
Violets	.75@ 1.75
Chrysanthemums	2.00@ 5.00
" fancy	20.00@25.00

BUFFALO, Nov. 17.

Roses, Beauties	5.00@25 00
" Brides, Bridesmaids	2.00@ 6.00
" Meteors	2.00@ 6.00
" Perles, Niphetos	2.00@ 4 00
" Kaiserins	2.00@ 6.00
Carnations, ordinary	.75@ 1.25
" fancies	1.25@ 2.00
Lily of the valley	3 00@ 4.00
Smilax	10.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	.50@ 1.25
Chrysanthemums	3.00@15.00

PURDY & BLAUVELT

Chrysanthemums, Roses, Violets, Smilax, Carnations.

WHOLESALE.

57 WEST 30TH ST., NEW YORK.

Daily market quotations to applicants.

Established 1891. Tel. 1615-38.

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117 WEST 30TH STREET,

Consignments Solicited. *NEW YORK.*

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WHOLESALE

Commission Florists

48 West 29th St., NEW YORK.

Capable, experienced. Consignments solicited.

Say: "Saw it in the FLORIST."

THOS. YOUNG, JR.

Wholesale Florist

43 West 28th Street, New York.

THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,

112 and 114 West 24th Street,

Telephone 733—18th. NEW YORK.

CONSIGNMENTS SOLICITED.

Special Attention Given to Shipping Orders.

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Commission DEALER IN **Cut Flowers,**

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NEW YORK CITY.

THE BEST MARKET IN NEW YORK.

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111 West 30th Street, NEW YORK.

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34 W. 29TH STREET, NEW YORK,

WHOLESALE FLORIST,

Careful Shipping to all parts of the country. Price List on application.

JAMES M. KING

Commission Dealer in

CUT FLOWERS.

Good Money for your Flowers.

Good Flowers for your Money.

49 WEST 29TH ST., NEW YORK.

TELEPHONE 1675 38th St.

Baltimore.

A WEEK OF POOR BUSINESS.—A LOCAL CHRYSANTHEMUM SHOW.—GARDENERS' CLUB MEETING.

Many complaints are heard of the inactivity of business of the past week. Flowers are of fair quality and the quantities are, in some cases, far in excess of the demand. Chrysanthemums especially are commanding smaller prices in consequence of over production.

E. A. Seidewitz has made an interesting exhibit of chrysanthemums from the gardens of individual growers and of his own growing. Paul Binder's seedlings, which have been before most of the C. S. A. committees, were given a prominent place. The most curious in the collection was a sport from Tasmania grown by R. H. Arning, the flower being distinctly and evenly divided between purple and white.

The Gardeners' Club held its regular meeting on Nov. 14. Being chrysanthemum night, there was a large attendance and fine exhibits by Fisher & Ekas, Sam'l Feast & Sons, W. B. Sands, R. Vincent, Jr., M. J. Hannigan, Philip Welsh, Paul Binder and R. H. Arning. Thomas Stevenson showed Farquhar and Marie Louise violets which were very fine. E. Kress read the essay of the evening, entitled, "Does it pay to grow early chrysanthemums?" A. R. J.

LONG'S
STOCK.....
CATALOGUES.

FLORAL ART CATALGUE of Cut Flowers and Designs, 16 pages, 96 illustrations, priced. Sample copy **20c.** in stamps.

PALMS, HOUSE PLANTS and how to treat them. New, handsome and practical; 16 pages, 12 illustrations. Sample copy free.

DAN'L B. LONG, Publisher, BUFFALO, N. Y.

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MANZ
CHICAGO

IS A CUARANTEE OF SATISFACTORY QUALITY.....

Manz makes illustrations for this paper.

HARDY CUT FERNS 75c

XMAS TREES by the carload or in small lots will be promptly supplied to any address.

EVERGREENS by the 100 lbs., $5.00.

All orders by mail or dispatch promptly attended to.

THOS. COLLINS, Hinsdale, Mass.

JACOB & ALLISON,
DIRECT RECEIVERS OF
CAPE FLOWERS.
PREPARED CYCAS LEAVES.
RAFFIA, CUBAN BAST.
Write us for Samples and Prices.
No. 63 PINE ST., NEW YORK.

HOLLY=VAUGHAN'S XXX BRAND

AND

Bouquet Green.

THE Holly situation changes nearly every year. For the last three years they've begun to bring it into the country towns like potatoes. Every man has taken to cutting his own—or some other man's—holly, and packs it well, badly or indifferently, or any old way. The result is very bad for the retail florist. When we first started the Holly business, in 1880, our buyer contracted for a man's grove and cut the best and sorted it himself, and established Vaughan's XXX Stock as a brand worth having. It is nearly 20 years old—almost of age—and has held its own well. But we wondered why so many culls came our way (to sell to peddlers at half rates) and this fall our Mr. Vaughan located this town market Holly system and cut it off from our man. We are buying and packing our Holly in the woods ourselves and it costs more money, but it is worth to the retailer a lot more than it costs. **A good case of Holly is easily worth Ten Dollars, while cull stock can't be given away.**

We can suggest delivery dates which will keep you in good supply on the best days for selling Holly. Our prices are not advanced. How much can you use?

Vaughan's Seed Store, *84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.*

Wisconsin is the HOME of BOUQUET GREEN. Please remember that we are in Wisconsin.

Bouquet Green! In any quantity.

Delaware Holly! Extra select and well packed.

GREEN WREATHING, MISTLETOE,

☞ Write for prices stating quantity wanted and we will make the price right.

FLORISTS' SUPPLIES We have them. Send for our new **CATALOGUE.**

FRESH CUT FLOWERS always on hand.

Holton & Hunkel Co., Milwaukee, Wis.

WE'RE not in the woods but we are HEADQUARTERS for

Bouquet Green

Also Select grade **Delaware Holly**

We also ship out perfect **Palms** and fine **Ferns** at reasonable prices.

Order GREEN WREATHING for Thanksgiving now. Write for quotations. Special price in quantity.

ELLIS & POLLWORTH, Milwaukee, Wis.

THIS IS IT.

NO OIL. NO FLAME.



For descriptive circular and price list. Address

LEHMAN BROS.
Manufacturers
10 Bond Street, NEW YORK.

LEHMAN'S
Wagon Heaters

Will keep your delivery wagons at a temperature that will prevent your plants and flowers freezing in the coldest weather. Positively **no smoke, no smell, no gas, no danger.** Cost of opering less than one cent per hour. Thoroughly reliable, inexpensive and durable.

OR **JAMES W. ERRINGER,** GENERAL WESTERN SALES AGENT, 297 Wabash Avenue, CHICACO.

Successful Growers



Know that they can dispose of all their Surplus Stock by advertising in the American Florist. TRY IT NOW.

THE

Advantages of Buying From Bayersdorfer

We have been canvassing the entire country from Boston to San Francisco annually for a third of a century,

So We Know What You Want

Our Mr. Bayersdorfer goes to Europe once a year to examine and select goods. We are ready to buy any desirable article manufactured in the United States.....

So We Know Where to Get It

We are the first in the field with novelties of intrinsic value. We buy heavily and pay cash.....

So We Can Make Lowest Selling Prices

SEE?

You cannot buy equal goods for equal figures. We are ready to demonstate it! Write for descriptive lists and special fall quotations on all seasonable

FLORISTS' SPECIALTIES.

Our New Violet, Lavender and White Lace Handkerchiefs have just arrived, a New Novelty for Violets.

H. Bayersdorfer & Co.

50-56 N. 4th St., PHILADELPHIA, PA.

PALM *Seed.* FRESH ON HAND

	100	1000	3000
Kentia Belmoreana.....	$1.00	$6.50	$15.00
" Forsteriana.....	1.00	6.50	15.00

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REED & KELLER.....

Florists' Supplies

122 W. 25th St., NEW YORK CITY.

John Conley & Son,

Manufacturers of

TIN FOIL

2 AND 4 DOMINICK STREET, New York.

KELSEY'S SOUTHERN

GALAX LEAVES.

BRILLIANT GREEN and BRONZE.

Information of the introducer....

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Prop'r Highlands Nursery, in No. Carolina.

Readers of the American Florist are liberal buyers.



Boxes rec'd all O.K. They are just the thing.
Fred. Gutekunst.

My Brass-bound "Grower's Box" is in use not only by all the principal growers around Phila., but by many of the leaders all over the country. The above letter is a sample of how they like them. See my last week's adv. for prices and other particulars, or send for circular.



RAFFIA, SPIRÆA, VALLEY, Tobacco Stems.

Juniper and Walnut Streets,

PHILADELPHIA, PA. U.S.

FIT FOR THE

...WEDDING OF A QUEEN

ORCHIDS in superb variety are being received daily and can be supplied in any quantity at fair prices.

MacDONALD & McMANUS,

50 West 30th Street, ...NEW YORK.

TELEPHONE 2778-38.

VIOLETS, ROSES, VALLEY, ETC.—Write us at any time when you need something no one else can get for you. Careful shipping.

WELL BOUGHT IS HALF SOLD.

Bouquet Green Holly

Evergreen Wreathing, Holly Wreaths, Mistletoe, Etc.

The right kind at the right price, and last, but not least,

We have an unbroken record as HEADQUARTERS. **at the right time.** Send us your list of wants for BOTTOM FIGURES.

W. W. BARNARD & CO.,

161 and 163 East Kinzie Street, CHICAGO.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLOIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

SAN FRANCISCO.—Waldo Rhonert, of Gilroy, was a recent visitor.

MRS. A. H. GOODWIN reached Chicago from Europe on November 8.

VISITED CHICACO: E. L. Coy, the veteran seed grower of West Hebron, N. Y.

VISITING NEW YORK: C. P. Braslan, Chicago; J. M. Kimberlin, Santa Clara; Lester Morse, Santa Clara; S. F. Willard, Wethersfield, Conn.

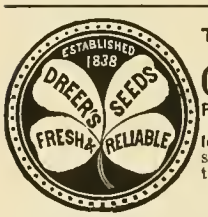
DUMMY inquiries are now in order and seedsmen's office help will soon be busy quoting round lots of the scarcer standard kinds, wasting good paper and postage.

SPRINGFIELD, O.—The Good brothers succeed Good & Reese, Mr. Reese engaging in the cut flower business on his own account. The old firm name remains unchanged.

J. M. THORBURN & Co.'s trade list, dated November 10, is at hand. This issue is always scanned with interest by the trade, being about the first printed indication of the coming season's market rate.

W. ATLEE BURPEE & Co. inform us that the name of their new sweet pea, Sunset Novelty "A" True Blue, has been changed to Navy Blue in courtesy to A. W. Livingston's Sons, who objected to the use of True Blue as an infringement on their trade mark of "True Blue Seeds."

NEW ORLEANS, LA.—C. W. Eichling has secured the services of the former president of the R. Frotscher Seed Co., Mr. L. Bruns, Jr., also their vice-president, Mr. J. A. Schalck, and bookkeeper, J. N. Moran. Mr. Eichling has leased the three story building 129–131 Camp street, which has a very central location. Invitations are out for opening the new store November 19. Besides a general line he will handle also cut flowers and decorations.



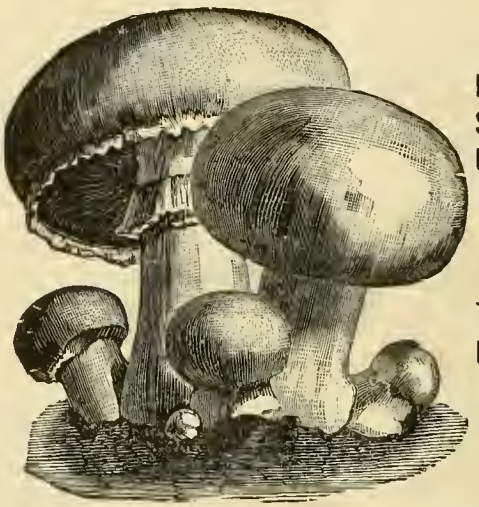
TRY DREER'S GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER, Philadelphia, Pa.

FOR Colored Plates, Covers and Seed Packets ADDRESS
STEGHER LITHOGRAPHIC CO.,
Rochester, N. Y.

Auratum AND Speciosum Lily Bulbs.
Now ready for delivery.
CLUCAS & BODDINGTON CO.,
501 & 503 West 13th St., NEW YORK CITY.

If you write to any advertiser anywhere mention the paper in which you saw the ad. Both publisher and advertiser will like you better for it.

Buist's New Mushroom Spawn FROM ENGLAND....



MADE SPECIALLY FOR US BY.... BARTER THE GREAT ENGLISH MUSHROOM SPECIALIST...

All the Large Mushroom Growers of Great Britain Use

BARTER'S ENGLISH SPAWN.

THE MOST SUCCESSFUL GROWERS OF THIS COUNTRY PREFER IT TO ALL OTHER BRANDS. Barter's great experience in its preparation will admit of no failure in crop if beds are in proper condition.

Price per 1,000 lbs. in Brick Form $65.00; 100 lbs. $7.00; 50 lbs. $3.50; 25 lbs. $2.00. Per Dozen Bricks $1.50. Sample Brick Mailed for 25 Cents.

ROBERT BUIST COMPANY, Philadelphia, Pa.

BULBS and FLOWER SEEDS
FOR FLORISTS.
J. M. THORBURN & CO.
36 Cortlandt Street, New York.

FRESH Mushroom Spawn.
The BEST and most productive type of English Spawn. Quality and condition guaranteed.
G. H. R. is prepared to ship large quantities throughout the coming season. Lowest terms upon application.
G. H. RICHARDS,
MANUFACTURER.
124 Southwark St., LONDON, S. E.
Will unknown correspondents please enclose London references.

EVERY CATALOG OF
Seeds and plants should offer our Shears. Close rates. Free Electros.
Kelly's Pruning Shears,
Flower Gatherer and Grape Picker.
All in one simple tool, which, unlike ordinary Shears, holds firmly anything cut. Indispensible to Florists, Grape or Plant Growers.



Circulars Free. Pruning Shear Co., Fremont, O.

Several thousand florists supply the majority of their wants after a perusal of these pages.



HOW TO ...GROW... Mushrooms
My 24-pp. booklet on M. Cult. free to buyers or intending buyers of spawn —to others, 10 cents New supplement on outdoor culture by JNO. G. GARDNER included. Next shipment of Mushroom Spawn due to arrive at this port December 7th. Send for my new Price List.
C. C. Watson, Juniper & Walnut Sts., Phila., Pa.

The Only Machine
on the market for automatically filling and sealing seed packets.
The Brown Bag-Filling Machine Co.
FITCHBURG, MASS., U. S. A.

BURPEE'S SEEDS PHILADELPHIA.
Wholesale Price List for Florists and Market Gardeners.



—— OUR PRICE LIST WILL NOT APPEAR THIS WEEK. ——

We have a complete line of first-class stock and will bill same at market rates.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

A. L. BROOKE, Pres.; E. ALBERTSON Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

WALTER WESTGATE, of Roseland Nursery, Houston, Texas, has changed his post office address from Houston to Brunner.

GALT, ONT.—William Cavers, of the nursery firm of Cavers Bros., died very suddenly, aged 39 years. He leaves a widow and son.

KANSAS CITY, Missouri, will set out large numbers of trees on the streets this fall and has asked nurserymen to bid on good sized orders.

EMPORIA, Kas.—James A. Yearout, nurseryman, of Lydon, Kas., was held up near the home of his son here, robbed of $200 and badly injured.

WENATCHEE, WASH.—Geo. K. Armstrong, of the Vancouver Nursery, will establish a nursery here and already has a considerable amount of stock on the ground. Walter Olive, of Mission, will be in charge.

E. Y. TEAS, Irvington, Ind., after years of success in the nursery business, is about to retire and writes that after the beginning of the new year he will devote his attention to the "propagation of pigs and chickens."

LENOX, MASS.—The exhibition at the Horticultural Society's rooms on Saturday evening, November 5, was very fine, most of the gardeners contributing liberally. J. F. Huss gave an interesting address on evergreens.

Cincinnati.

FLORISTS' SOCIETY HOLDS A VERY SUCCESSFUL MEETING WITH DISPLAYS OF CHRYSANTHEMUMS.—ROSE EXHIBITS.—A NEW RED.—DELINQUENTS ARE DROPPED.

The chrysanthemum meeting of November 12 was the most interesting in the history of the Cincinnati Florists' Society. The exhibits of chrysanthemums, roses and carnations were by the best growers in this vicinity. For this show we had three special cash prizes offered by Albert Sunderbruch, J. C. McCullough and Baron, Boyle & Co. The latter called for vases of twenty-five blooms and the $10 premium was justly captured by R. Witterstaetter with Major Bonnaffon, a display which caught the eyes of every visitor. E. G. Hill & Co. entered this contest with a fine vase of Mlle. Lucie Faure, a large globular white, which was undoubtedly a close second. The Hoffmeister Floral Co. showed a vase of Golden Wedding which were excellent. George & Allen captured the Sunderbruch prize with a vase of twelve blooms in variety. Under the rules of the new schedule the one who donates a premium is entitled to the winning exhibit, but Mr. Sunderbruch refused to accept, being of the opinion that people offering a premium should not be entitled to the flowers. Mr. George wished Mr. Sunderbruch to take the blooms and they had quite a dispute about it, which ended when Mr. Sunderbruch bought outright George & Allen's entire collection of show blooms. This firm also received the prize offered by J. C. McCullough for the best twenty-five lily of the valley.

Fred. Walz had a vase of Marechal Niel rose which were exceptionally large and in Hoffmeister's collection their new rose, Miss Clara Barton, made a good showing. Their American Beauties were also well done. A vase of Helen Blood-good grown by W. Robertson, gardener to Mr. Shmittlap, were well finished and deserve special mention. R. Witterstaetter had several vases of seedling carnations on exhibition, but it seems as though the public at large wanted to see chrysanthemums.

Nathan Smith, Adrian, Mich., had before the C. S. A. committee a vase of Shilowa, a dark velvety red flower, medium in size. In color this is one of the darkest red up to date, but whether it will take as a commercial variety is a question.

In the evening of November 12 the regular monthly meeting of the club was called to order by President Witterstaetter. Four new members were elected and the question came up as to what shall be done with members in arrears. The secretary has notified all delinquent members calling attention to the steps which had been taken by the society at the previous meeting and a motion was made that all members in arrears three years should be dropped at once and the balance given until the December meeting to save themselves; carried.

A little delegation made a run up to Indianapolis last week and came home well pleased with what they saw at the show. H. SCHWARZ.

TROY, O.—Harvey Fox is remodeling his house and making preparations for a big winter trade.

PORTLAND, ME.—The finest funeral piece ever seen here was the floral model of the steamer St. Croix supplied for the obsequies of John B. Coyle. It was the work of Joseph A. Dirwanger.

HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
JACOB W. MANNING,
The Reading Nursery, READING, MASS.
ESTABLISHED 1854.

J. H. H. BOYD
TREE and SHRUB, SEEDS and SEEDLINGS,
GAGE, Sequatchie County, TENN.
Send for price list.

Circulation
which
Circulates
The actual paid circulation of the American Florist is, we believe, the largest in its class. The contents are of real present value and are preserved for reference. Advertisers who use regularly our columns establish permanent business with the best trade in the United States.

AZALEA INDICA,
12 to 14 inches diameter. Fine, shapely, well-budded plants of the best forcing varieties. Prices too low for publication.
Write for Them.

Hydrangeas ...OTAKSA RED BRANCHED and THOS. HOGG
Strong, field grown plants.
With 3 to 5 crowns . . . $1.00 per 10; $8.00 per 100
" 1 to 3 " 75 " 5.00 "

ASPARAGUS SPRENGERI, $6.00 per 100
Fine, thrifty stuff from deep 2½-inch pots, 6 to 10 inches tall and with 5 to 10 stocks.

FIELD-GROWN HARDY ROSES
Clematis, Ornamental Shrubs and Trees, Pæonies, Herbaceous Plants, Small Fruits, Fruit Trees.
Send for wholesale price list.
Jackson & Perkins Co. Newark, New York.

....AUTUMN 1898....
One Million
Flowering Shrubs; full assortment; all sizes.
Half Million...
Deciduous Trees for street, lawn and avenue planting.
200,000 Vines, Ivies, Clematis, Actinedia and other sorts. Correspondence solicited.
THE WM. H. MOON CO.
MORRISVILLE, PA.

FOR IMMEDIATE DELIVERY!
Amoor Privet and Hardy Lemon—best Hedge Plants.
5,000 Gardenia Florida—pot grown.
5,000 Oranges—dwarf grafted sorts.
15,000 Camphor.
500 Ficus Elastica.
10,000 Latania—4-inch pots.
1,000 Phœnix Reclinata—6-inch pots.
100,000 Cannas—leading sorts, $15.00 per 1000.
10,000 Biota aurea nana.
5,000 Rare Coniferæ.
ROSES—field-grown, on own roots and budded low.
An immense stock of Ornamental and Fruit Trees.
Send for Trade List.
P. J. BERCKMANS CO.,
FRUITLAND NURSERIES, Augusta, Ga.
Mention the American Florist.

Viburnum Tomentosum
A RARE AND BEAUTIFUL SHRUB.
HERBACEOUS PERENNIALS ...A... SPECIALTY
Price list and descriptive catalogue on application.
REA BROTHERS, Norwood, Mass.

VIBURNUM PLICATUM...
Fine large bushes 5 to 7 ft. high, at $1.00 each, and all other sizes. Also a full assortment of hardy flowering shrubs.
SUGAR MAPLES...
10 to 12 ft., and other shade trees. Send for list.
SAMUEL C. MOON, Morrisville, Bucks Co., Pa.
Mention the American Florist.

F. & F. NURSERIES SPRINGFIELD, NEW JERSEY.
Wholesale Growers, TREES & PLANTS in Full Assortment. TRADE CATALOGUE FREE.

..SPECIALTIES FOR THANKSGIVING..

CUT FLOWERS.

Prices take effect Monday, Nov. 21st.

ROSES.

Beauties, long, per doz.,	$3.00 to $4.00
" medium "	2.00 to 3.00
" short "	1.00 to 2.00
	Per 100.
Brides, Maids, Meteor,	$4.00 to $7.00
Kaiserin, La France....	4.00 to 7.00
Perle, other teas.....	4.00 to 5.00
Roses, our selection.....	4.00 to 5.00

CARNATIONS.

Fancy stock.....	2.50 to 3.00
Ordinary "	1.50 to 2.00

CHRYSANTHEMUMS.

Fancy varieties.....	15.00 to 25.00
Medium stock.....	8.00 to 12.00
Ordinary stock.....	4.00 to 6.00

MISCELLANEOUS STOCK.

Valley.....	4.00 to 5.00
Violets.....	.75 to 1.50
Orchids, Cattleyas.....doz.,	6.00
" Cypripediums..... "	2.00
" assorted box.....	10.00

Above prices subject to change without notice.

Give us your THANKSGIVING order early.

DECORATIVE STOCK.

Wild Smilax, parlor brand.....	$3.75
" " medium case.....	5.50
" " large "	8.00
Asparagus Plumosus.....doz.,	5.00
" " string,	.50
Smilax.....per box,	$1.00 to 1.50
Adiantum Ferns...per 100,	75c to 1.00
Common " ... "	.15
" " ... " 1000,	1.50
Galax Leaves..... " 1000,	1.00
Farleyense Fronds.....doz.,	1.00

We always have good stock of above on hand and can fill orders promptly.

CYCLAMEN PLANTS.

Plants from our stock were awarded First Premium at Chicago Show against five competitors. Positively none better.

Now ready for shipping direct from greenhouses.

600, 3-in.	pots, at.....	$8.00 per 100
2000, 4	"	12.00 "
1000, 5	"	25.00 "
500, 6	"	50.00 "

XMAS STOCK.

Order now and secure best stock shipped at proper time.

HOLLY, GREEN & MISTLETOE.

We will meet quotations of any reputable western house.

We have fresh stock of all the following goods:

Cape Flowers, Immortelles,
Pampas Plumes, Fairy Flowers,
Sheet Moss, Sphagnum Moss,
Vases, Ribbons, Doves,
Wheat Sheaves, Tin Foil, Toothpicks,
Violet Foil, Baskets, Bouquet Pins,
Chenille, Cycas Leaves

and everything used by florists.

OUR STORE OPEN 7 A. M. TO 7 P. M.
SUNDAYS AND HOLIDAYS
7 A. M. TO NOON.

TELEPHONE MAIN 1129. **VAUGHAN, McKELLAR & WINTERSON,** 45-47-49 Wabash Ave., CHICAGO.

HEACOCK'S ..Offer.. PALMS

ALL MEASUREMENTS GIVEN ARE FROM TOP OF POT, AND DON'T YOU FORGET IT.

ARECA LUTESCENS.

3 plants in	3-in. pot,	10 to 12 in.	high	$20.00	per 100.
3 "	4 "	15 to 18 "		25.00	"
3 "	6 "	22 to 24 "		9.00	per doz.
3 "	6 "	24 to 26 "			
3 "	12 "	5 to 6 ft.	high, very bushy	$10.00	each.
A few bushy specimens, 14 in. pots, 7 to 8 ft. high				25.00	"

My stock of this variety is very large, grown cool, clean and very healthy, and cannot fail to give satisfaction. All are grown three plants in a pot.

COCOS WEDDELIANA.

2 x 3-in.	pot, 1	plant, 6 to 8	in. high	$10.00	per 100.
3 "	1 "	12 to 14 "		20.00	"
4 "	1 "	15 "		40.00	"
5 "	1 "	15 to 18 "		50c	each, 6 00 per doz.
5 "	3 "	15 to 18 "		50c	" 6.00 "

My stock of this beautiful variety is very large and in excellent condition.

KENTIA BELMOREANA.

3-in.	pots,	4 to 5	leaves,	10 to 12	in.,	$3	per doz., $25 per 100
4 "	5 to 6	"	15 to 18	"	6	"	50 "
5 "	5	"	18 to 20	"	12	"	
6 "	6	"	18 to 20	"	15	"	
6 "	6	"	24 to 30	"	18	"	



LATANIA BORBONICA.

3-in.,	4 to 5	leaves,	12 to 15	in. high	10.00 per 100
5 "	5 to 6	"	18	"	$5.00 per doz. 40.00 "

The palms offered are all home grown, strong and healthy. **The measurements given are from the top of pot to the top of plant, in its natural position.** I am particular to mention this, as some growers include the pot in their measurements, in other words, **include the length of the roots** with the height of the plant.

TERMS: Unknown correspondents will please furnish satisfactory reference or cash with the order. All orders will be shipped by express, unless otherwise ordered.

JOSEPH HEACOCK, Wyncote, Pa.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

Bowling in Chicago.

The Chicago bowlers had as their guests at the last session, A. Herrington, of Madison, N. J., A. Dimmock, of New York, and J. F. Wilcox, of Council Bluffs. Two games were rolled at the usual alleys, John Degnan making the high score, 184.

Gotham Bowlers Organize.

The New York Florists' Bowling Club elected E. Leuly for president, C. B. Weathered for secretary and A. S. Burns for treasurer on Monday afternoon. The alleys now in use by the club are not entirely satisfactory and the committee will endeavor to secure better quarters. In the meantime practice games go on regularly every Monday evening except on club meeting night when they occur at 3 p. m.

Late advices are to the effect that the New York Club has changed its bowling quarters from Thirty-second street and Fourth avenue to Fifty-seventh street and Sixth avenue.

Detroit's New Bowlers.

Detroit florists are green at the game and none of them have rolled upon the alleys at which they will hereafter hold weekly practice until convention time. Under these conditions their first scores are not at all bad. Here they are:

Name.	1st.	2d.	3d.	4th	Av.
Dunn	145	141	158	135	145
Holznagle	121	148	111	126	127
Dilger	102	132	137	134	126
Rackham	129	106	176	92	126
Lohrman	80	95	165	69	105
Paulke	70	139	104	—	104
Sullivan	69	126	116	—	104
Flowerday	117	110	110	65	101
R. Watson	60	101	95	113	92
Beard	—	94	75	—	85
Pickworth	76	71	94	66	78
W. Watson	91	72	57	85	74

Pastimes at Flatbush.

The Flatbush Florists' Bowling Club under the leadership of D. Y. Mellis met the Royal Arcanum aggregation on Friday evening, November 11, and did them up for three straight games. Much of the glory belongs to Louis Schmutz, who made six consecutive strikes, and John Raynor never rolled with such vim before. The regular Thursday evening games of the club are full of enthusiasm over the great contest between the "Lobsters" and the "Clams" for a Thanksgiving dinner. Up to date the latter have the best of the argument. Wm. Nicholson, of Framingham, and M. A. Patten, of Lowell, Mass., were interested visitors last Thursday evening.

A Voice from Cleveland.

What's the matter with the local talent? Here are good alleys provided for them with every accommodation, but still they don't seem to be able to get out o' nights to bowl to any great extent. Have we forgotten that next year's convention will be held almost at our door and that it will be no trouble at all to put up a game there that would make barrels of trouble for those bowling sharps from foreign shores, who have got that bowling prize all done up in a nice package to take away with them next August? Wake up! Wake up! Come out and bowl and let these people know a thing or two!

There was not a very large attendance at the last club meeting and most of the evening was spent in bowling. Henry Kunz, of course, rolled way up at the top but he was pretty well hustled by Pentecost, Cushman and Graham. Fred Aul also bowled well and the general average was high so that there was plenty of competition to keep the interest up to the end. A.

Buffalonian Bowlers.

Last Friday night a dozen bowlers repaired to the Music Hall Bowling Alleys and rolled two games. W. J. Palmer, Sr., captained one team and George McClure the other. The former aggregation won by fifty-nine points although "the Hero of Omaha" was able to make neither the high score nor best average.

Name	1st.	2d.	Ave.
W. J. Palmer, Sr.	104	77	91
George Troup	115	160	138
Wm. Scott	172	101	137
W. F. Kasting	143	143	143
A. J. Scott	115	175	145
Thos. Clayton	65	81	73
	714	737	
George McClure	170	102	136
Geo. E. Fancourt	113	189	151
W. A. Adams	97	92	95
D. B. Long	124	122	123
Thos. Coleman	79	70	75
Peter Crowe	127	107	117
	710	682	

W. A.

Philadelphia Sports.

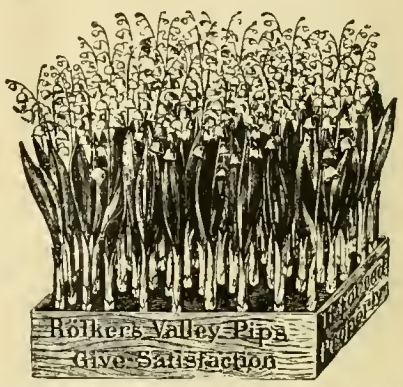
The first match in the inter-city bowling tournament took place on alleys of the Florists' Club between the florists and the team from the University of Pennsylvania. The contest was very exciting after the first game, in which the florists obtained a lead of sixty-eight pins, mainly on Brown's 210, put up in faultless style. At the end of the second game the difference had been reduced to 26. The third game was very exciting. All played well, but Moore saved the game by making three strikes in the last two frames and adding fifty-seven to his score. The Florists' Club won out by thirteen points. Following is the score made by the florists:

Name	1st.	2d.	3d.	Total
Moore	145	139	175	459
Smith	109	142	165	416
Brown	210	125	145	480
Connor	147	122	103	372
Goebel	150	120	169	439
Habermehl	113	142	146	401
	874	790	903	2567

At the last monthly shoot of the Gun Club, on November 8, the following scores were made, twenty-five targets being thrown at known and twenty-five at unknown angles.

Name	Known angles.	Unknown angles.	Handicap.	Total
Burton	20	18	5	43
Smith	22	20	3	45
Anderson	23	20	3	46
Jones	15	13	13	41
Harris	14	10	13	37
Goebel	20	17	8	45
Ball	23	15	11	49
Engle	21	20	10	51
Westcott	10	12	20	42

K.



BEST HAMBURG per 1000 $10.00
Forcing Pips.
SELECT SAND GROWN $12.00
Our H. C. Brand.
Less 10 per cent for prompt cash.
August Rölker & Sons, 52 Dey St., NEW YORK.
Dealers in Seeds, Bulbs and Supplies.

A STRIKE!

A good score for plant growers who want an outlet in New York City for their product.

OUR PLANT DEPARTMENT IS A SUCCESS.

A competent plantsman in charge.

We have a good market for Thanksgiving and Holiday plants.

FOR PARTICULARS ADDRESS

Traendly & Schenck,

WHOLESALE FLOWER AND PLANT DEALERS,

38 West 28th Street, ...NEW YORK.



ARRIVING SOON!

Lily of the Valley Pips

"London Market" Brand.
The finest strain in existence for early forcing. Per 1000, $14.50.

"Premium" Brand.
Equal to "London Market" brand for later forcing. Per 1000, $12.

"International" Brand.
A select grade of "Berlin" pips. Not to be compared with Hamburg grown "second-class" stock offered at low prices. Per 1000, $10.00

SPECIAL PRICES MADE FOR QUANTITIES.

"LONDON MARKET" BRAND VALLEY.

OUR "London Market" AND "Premium" Brands OF VALLEY Have a reputation from Maine to California.

SPECIAL PRICES QUOTED FOR QUANTITIES.

Azaleas

This stock is going fast but we still have a good assortment of varieties and sizes:

PRICES:	PER 100
10 to 12 inch	$40.00
12 to 14 inch	45 00
14 to 16 inch	55.00

WE IMPORT ONLY THE MOST POPULAR AND BEST SELLING VARIETIES.

SURPLUS ...BULBS

A number of florists have taken advantage of our very low offers on

WHITE ROMAN HYACINTHS, NARCISSUS, PAPER WHITE GRANDIFLORA.

We, however, still have a small quantity of each size of above, and will make rates that will pay you to grow them.

ALSO READY—SPIRAEA, GLADIOLUS COLVILLEI, JAPAN LILIES AND TUBEROSES—NEW CROP.

VAUGHAN'S SEED STORE,

NEW YORK, 14 BARCLAY ST. 84-86 RANDOLPH ST., CHICAGO.

HEADQUARTERS FOR HOLLY, GREEN, AND ALL OTHER XMAS DECORATIONS.

MÖLLER'S Deutsche Gärtner-Zeitung

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

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Ludwig Möller-Erfurt. (GERMANY)


FANCY


DAGGER

Hardy Ferns

WARRANTED FIRST QUALITY.

SPECIAL ATTENTION PAID TO SUPPLYING WHOLESALE DEALERS.

Write for Prices.

ALSO DEALER IN

BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES,

Etc., Etc., Etc.,

L. B. BRAGUE, - Hinsdale, Mass.

Oldest, Largest and Most Reliable Dealer in the United States.

Nashville.

TRADE IS GOOD.—CHEAP PRICES AND OTHER EVILS.—NO CHRYSANTHEMUM SHOWS THIS YEAR WHERE LAST SEASON THERE WERE SEVERAL.

Trade last week was good, and there was a good supply of flowers, but patrons desire to purchase at the lowest possible cost and no amount of artistic arrangement, or exercise of taste and skill obtains one cent more. Bridal bouquets are made up and sold at exactly the price of the cut flowers. It is the same way with the occasional basket made, but the basket trade has very nearly ceased and cut flowers alone are used on most occasions.

A growing evil is the free and gratuitous use of palms for decoration. One evening recently a florist had his palms at five different places and not one cent coming in for any of them. The florists also give away a large quantity of cut flowers, and there is a growing call for stock that is not strictly fresh. This is sold at a very cheap rate, or is given away, but does not interfere with the best trade, as there is always a good demand for first-class flowers.

Clarksville has just had a carnival and one of the features was a floral parade which was a very beautiful and artistic affair. The traps and carriages were exquisitely decorated for the occasion.

There have been no chrysanthemum shows in this vicinity this season. Last year there were several. M. C. DORRIS.

LAWRENCE, MASS.—Albert E. Moody's formal opening of his new greenhouse attracted a large number of admirers of fine flowers.



HYDRANGEA OTAKSA MONSTROSA.

An exceptionally fine lot of strong, heavy plants of this best of all Hydrangeas for Easter forcing. These plants have been grown in the open ground and are a grand lot of strong, thrifty plants which will produce from 6 to 10 large heads of flowers.

For the want of room to properly carry over we offer at

$3.50 per dozen.
$25.00 per 100.

HENRY A. DREER,
714 Chestnut St., PHILADELPHIA.
Mention the American Florist.

Important Notice.

To the Seed, Flower, Nursery and Allied Trades:

THE seventh edition of our Directory will soon be ready for the press. This book is in constant use by all the leading wholesale and retail seedsmen, nurserymen and florists of the United States and Canada, and there are some 13,000 of them. The names and addresses are in process of revision, and the new edition will be issued promptly on January 1, 1899. An advertisement in this publication will largely increase your trade; and to insure good position and display, we should have the order early. A copy of the book will be mailed free of charge to all advertisers.

Many of our patrons have expressed the highest satisfaction with the increase of business due to having their names on the alphabetical list in large type. This feature will be continued in the next edition at the small cost of $1.00. For $2.50, sent with order, we will place your name in large type and mail you a copy of the next edition. The book will save you many times its price in the course of the year.

Trusting to be favored with your commands, we are,
Yours very truly,

The American Florist Company,
324 Dearborn Street, CHICAGO, ILL., U. S. A.

Send your advertisement and order for large type now.

THE AMERICAN FLORIST'S
COLOR CHART
is now accepted as the standard in preparing color descriptions, by many foreign houses as well as in America.
PRICE 15 CENTS POSTPAID.
AMERICAN FLORIST CO., 322 Dearborn St. Chicago

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This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Annual subscription to cover cost of postage 75 cents.

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Chilwell Nurseries, - Notts, England.

PALMS and FERNS
The Largest Stock of PLANTS IN THE WEST

GEO. WITTBOLD
1708 N. HALSTED ST.
CHICAGO

CARNATIONS
H. WEBER & SONS,
Oakland, - Md.

Chrysanthemum STOCK PLANTS,

of Fitzwygram, earliest white, Montmort, earliest pink, Yellow Monarch, earliest yellow, Marion Henderson, Golden Trophy, Elvena, Midge, Frank Hardy, Phœbus, Australian Gold, Mrs. H. Weeks, Longfellow, F. Pullman, Iora, Yanoma, Cheabeague, Maud Adams, Autumn Glory, Spottswood, R. G. Carey, W. H. Chadwick, Nyanza, Bigelow, Miss G. Vanderbilt, Chas. Molin, A. F. Carey, John Shrimpton, Liberty, Golden Harvest, Quito, Georgienne Bramhall, J. E. Lager, Bonnaffon, Modesto, Sunderbruch, Glory of Pacific, Ivory, Pink Ivory, Pale Perrin, Silver Cloud, Mrs. Egan.

ASPARAGUS SPRENGERII, in six, eight, ten, twelve and fourteen inch pans.

☞Write for our Catalogue and prices.

AMERICAN ROSE COMPANY, Washington, D. C.

FIELD-GROWN **CARNATIONS**

Ready Now.

SCOTT and McGOWAN at	$5.50 per 100
GENESEE	12.00 "
RUBBER PLANTS, Ficus Elastica, 5-inch, at	$5.00 per doz.
ASPARAGUS SPRENGERII	6.00 per 100
PRIMROSES	4.00 "
SMILAX	2.00 "
HYDRANGEAS, field-grown	30.00 "
VINCA variegated	5.00 "

WM. F. KASTING

BUFFALO, N. Y.

Please mention American Florist.

Surplus, Field-Grown

CARNATIONS

Clean, healthy, strong plants with plenty of roots.

White Cloud, white.	C. A. Dana, pink.
John Young, white.	Dazzle, scarlet.
Mary Wood, white.	Jubilee, scarlet.
Storm King, white.	Gold Nugget, yellow.
New York, pink.	Psyche, variegated.
Painted Lady, pink.	Lily Dean, variegated.
Mrs. C. H. Dubme, pink	Meteor, crimson.

Send for Price List.

FRED. DORNER & SONS CO.

LA FAYETTE, IND.

PLANTS FOR DECORATORS.

The season for plant decorations is at hand and any of these will be a useful addition to stock, being bright, fine colored elegant specimens. Packed in pots, by freight, if desired.

	per dozen
ARECA LUTESCENS, 8-in. pots, 4 to 5 ft.	$18.00 to $24.00
ARECA LUTESCENS, 6-in. pots, 3 to 4 ft.	12.00
OREODOXIA REGIA, light graceful, 5 to 6 feet	18.00
NEPHROLEPIS BOSTONIENSIS, 8-in. pans, 3 to 4 ft. over	18 00
ADIANTUM TENERUM, 8-in. pans	9.00

CASH WITH ORDER.

JOHN H. LEY,

Good Hope, - - Washington, D. C.

Carnations! FIELD-GROWN.

All sold except 500 Lizzie McGowan
500 Wm. Scott 100 Morello and
300 Emily Pierson 100 Goldfinch

If there is anything here you want, write me and get some low prices on this lot. Address

Chas. Chadwick, Lock Box H, Grand Rapids, Mich.

Mention the American Florist.

FOR SALE.

4000 Scott Carnations, $3.00 per 100. $25.00 per 1000.

Stock is perfectly free from rust and disease. Cash must accompany order.

CHARLES SCHAFER,

220 Balmoral Ave., Station X, - - CHICAGO.

Do not hide your light under a bushel. Tell the people what you have for sale.

CHRYSANTHEMUM STOCK PLANTS.

NOVELTIES FOR 1898.

Per Dozen, $3.00; Per 100, $20.00.

Wm. H. Chadwick, Madeline Pratt, Autumn Glory, Snow Queen, Mrs. C. H. Peirce, Yellow Fellow, Mrs. Arthur J. Caton, Yellow Mrs. Jerome Jones and Thornden, at 50c. each.

SCARCE OR NEWER SORTS.

Per Dozen, $2.00; Per 100, $15.00.

Frank Hardy, Mrs. C. H. Weeks, Geo. S. Kalb, Midge, Defender, Western King

STANDARD KINDS.

Per Dozen, $1.50; Per 100, $10.00.

Liberty	Mrs. Martin A. Ryerson	Ivory	Miss Agnes L. Dalskov
Mayflower	Mrs. J. G. Whilldin	Golden Trophy	Mrs. S. T. Murdock
Eugene Dailledouze	Marion Henderson	Major Bonnaffon	Lady Fitzwygram
Philadelphia	Yanoma	Modesto	Mrs. W. H. Rand
Golden Wedding	The Times	Mrs. H. Robinson	Chas. Davis
Evangeline	Jennie Falconer	L'Amethyst	Niveus
E. M. Bigelow	Marion Cleveland	Joanna	Geo. W. Childs.
Viviand-Morel	Mrs. Jerome Jones	Glory of the Pacific	The Queen
Gretchen Buettner	Mrs. Perrin	Mme. F. Bergmann	

VAUGHAN'S SEED STORE,

CHICAGO. GREENHOUSES, WESTERN SPRINGS, ILL. NEW YORK.

ASPARAGUS SPRENGERI.

50,000 plants in 2½-inch pots, $5.00 per 100, Xpress; 24 for $1.50 by mail.

Specimens for 8-inch pots, $6 per 12.

A. BLANC & CO.

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STOCK PLANTS.....

WM. H. CHADWICK

Chrysanthemum.

Unquestionably the grandest of all whites, $3.00 per dozen.

GROVE P. RAWSON, Elmira, N. Y.

STOCK PLANTS of Earliest of all 'MUMS that make a good flower.

Cut Sept. 20th. Last year Sept. 17th.

LADY FITZWYGRAM, $1 00 per doz.

Cash with order, please.

FRED. BURKI, Bellevue, Pa.

Adiantum Farleyense.

FINE PLANTS

In 5-inch pots, at $9.00 per dozen.

EDWIN LONSDALE, Wyndmoor, Chestnut Hill, PHILADELPHIA.

Money order office, Sta. H, Philadelphia.

CRIMSON RAMBLER

For Easter forcing.
EXTRA strong, 5 and 6 canes, $3.00 and $4.00 per dozen. $24.00 and $32.50 per 100.
This is the finest stock ever offered for this purpose.

F. L. ATKINS, Orange, N. J.

Tell them where you saw the ad.

CHRYSANTHEMUMS. STOCK PLANTS.

Rose Owen	G. F. Atkinson
Golden Trophy	Maud Dean
Lady Fitzwygram	Mrs. R. D. Douglas
Yellow Monarch	Western King
Riverside	Evangeline
Glory of Pacific	Mrs H. Wright
J. H. Woodford	Dorothy Devens
Major Bonnaffon	Mrs. R Crawford
Mrs. W. P. Raynor	at $1 25 per doz.

Also Mrs. H. Weeks, Miss Gladys Vanderbilt, Maud Adams and J. M. Gifford, at $2.00 per dozen.

Also Varieties Introduced in 1898.

Mrs. C. H. Peirce	Snow Queen
Mrs. O. P. Bassett	Blackhawk
Yellow Fellow	Australian Gold
Pennsylvania	Solar Queen
Frank Hardy	Autumn Glory
Boundless Snow	Chempwee
Spottswood	T. H. Spaulding
Minnewaska	Madeline Pratt
Merry Christmas	at 30c. each, $3 00 per doz.

THE COTTAGE GARDENS, Queens, N. Y.

PALMS. FERNS. FICUS.

Medal awarded on Palms World's Fair, 1893.

(Established 1884.)

100,000 Strong LATANIA SEEDLINGS, and 25,000 FERNS for dishes, at $3.00 per 100; $25.00 per 1000.

TERMS CASH.

ALBERT FUCHS,

2059-73 N. Halsted St., CHICAGO, ILL.

AZALEA INDICA.

Superb stock; to clear out a later consignment, we offer:

8-10-inch	per dozen,	$3.50;	per 100,	$25 00
10-12-inch	"	4 25;	"	32.00
12-14 "	"	5.50;	"	42.00
14-16 "	"	6.50;	"	52.00

SEND ORDERS QUICK.

Lil. Auratum, Rubrum, Album ready.

Special offer Lil. Longiflorum, 7-9-in., per 100, $3 net.

H. H. BERGER & CO., 47 Barclay Street, New York.

(ESTABLISHED 1878.)

Cleveland.

CHRYSANTHEMUMS NOT IN HIGH FAVOR.—STOCK SHORTENED BY BAD WEATHER.—NO EXHIBITION THIS FALL.—A VISIT TO BUFFALO AND TORONTO.

There begins to arise the murmur that nearly always occurs about this time of year relative to the decadence of the chrysanthemum. We have had it with us for several years in varying degrees and with more or less foundation in fact. It is, of course, quite natural with a one season flower such as the chrysanthemum, that at times there should be more than the public requires. It does really seem, though, this time, as if the public really is somewhat sated by the chrysanthemum, and that the sale for them this year is indeed somewhat slower than in former seasons. This may be caused by what seems to be generally conceded to be a fact, namely, that chrysanthemums this year, to quite a general extent, seem to be rather inferior in quality as compared with other years.

The weather of late has been extremely bad, somewhat checking roses and carnations, a condition not regretted so far as the roses are concerned, but carnations have not at any time been superabundant.

There has been no chrysanthemum show here this fall, and there is little inclination on the part of the florists to regret it. Too small a part of the public takes any interest in them and too much work and too little appreciation about sums up the situation in the minds of local florists. Nor is there much belief in their value as an advertisement tending to increase the general purchase of flowers. Adam Graham and H. A. Hart took in the Buffalo and Toronto exhibitions, of which they speak favorably, especially the one at Toronto, which was highly meritorious in both the plant and cut flower sections.

The firm of Wilson Bros. has the sympathy of the florists in the loss of their father, who died suddenly. Mr. Wilson had been in poor health for a number of years. A.

ALBANY, N. Y.—The annual public chrysanthemum show made by Superintendent Egerton of the park department was held this year at the rooms of the Albany Historical Society. Being centrally located thousands of people visited the show, which was arranged so as to form a picture of unusual beauty.

Orchids!

CATTLEYA MENDELII arrived in superb condition. Write for prices at once. Only a limited quantity left.

LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS. Splendid assortment of best varieties for Cut Flowers.

CACTI. Large stock of best Mexican sorts, including the popular "Old Man's Head."

BULBS for summer flowering.
Send for special "winter offers."

J. A. McDOWELL, P. O. Box 167, City of Mexico.

Pteris Tremula Ferns

Strong plants, ready to shift to 4 and 5-inch, from 2¼-inch pots, $3.50 per 100; $30.00 per 1000.

R. WITTERSTAETTER,
SEDAMSVILLE, OHIO.

ROSES FOR EASTER

We have a splendid stock of the following 2-year dormant Roses for Easter forcing.

Crimson Rambler, Magna Charta, Yellow Rambler, Paul Neyron, Ulrich Brunner.

Price, 8.00 and $10.00 per 100, according to size.

Clothilde Soupert and Mosella, strong plants, $8.00 per 100.

Order now... ROBERT SCOTT & SON,
PENROSE NURSERIES, SHARON HILL, Del. Co., PA.

AZALEAS.

First consignment arrived in perfect condition. Can ship immediately.....

9-10-inch	$30.00 per 100
10-12-inch	35.00 per 100
12-14-inch	45.00 per 100
14-16-inch	60.00 per 100

All well furnished with buds.

LEADING SORTS: Apollo, A. Borsig, Bern, Andrea Alba, Deutsche Perle, Empress Brazil, Mme. Van der Cruyzen, Simon Madner, Vervaeneana, Etc.

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LOWEST PRICES ON BULBS, BUT CASH!

Send in your wants for quotation, no price list issued.

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AZALEAS

	Per 100	Per Doz.
10-12 inch	$35.00	$4 50
12-14 inch	45.00	6.00
14-15 inch	60.00	7.50
16-18 inch	100.00	15.00

They include the best market kinds, are well budded, and in every way perfect. The above prices are f. o. b. New York City.

100 CYCLAMEN GIGANTEUM, fine plants, 5-inch pots, $35.00.

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SPECIALTIES IN BEST VARIETIES

ROSES, from 3-inch pots.
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Roses, Palms
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BEGONIAS AND GLOXINIAS In any quantity.

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THE BOSTON FERN From $5 per 100 and $40 per 1000 to $1 each.
A SPECIALTY. L. H. FOSTER,
45 King Street, DORCHESTER, MASS.

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AMERICAN BEAUTIES

For Forcing.

DORMANT BUDS.

These plants were budded on Manetti stocks last June. If potted in six or seven inch pots now and the bud forced out they will make splendid plants in a few months.

We forced some ourselves last winter and got a growth of over six feet.

PRICE, $10.00 PER 100.

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Of All Kinds.

Hulsebosch Bros.,

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ANTON SCHULTHEIS,

P. O. BOX 78,
College Point, Queensborough, New York, N. Y.

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For Ericas (Heather); also full line of other Flowering Plants.

PALMS and DECORATIVE PLANTS IN QUANTITY.

Come, see and convince yourself.

FERNS! FERNS!

The following Ferns, TO CLOSE, at $2.00 per 100; $15.00 per 1000. All 2-inch, strong:

Pteris Tremula	Pteris Ensifolia
" Serrulata	Adiantum Cuneatum
" Serrulata Cristata	" Williamsii
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OUR DEAR FRIEND.

BY WM. K. HARRIS.

The Soldier gives his life-blood, our country to save;
The Preacher gives us bliss beyond the grave;
The Doctor, to relieve our pains, responds to every call;
But "Money" is our dearest friend of all.

My Stock has Grown Very Corpulent.

Its growth has consumed my purse to a mere skeleton; and as I badly need my "dear friend" I will offer for the wanderer's return the following stock at 25% less than my usual price, for this month, November, only:

There are many dealers and growers in the trade that have but little idea of the beauty of the Rubber (**Ficus Elastica**) as it is grown by me. Having a large and fine stock of the most perfect developed specimens, I offer for a short time an opportunity for all to obtain at least a sample of how a Rubber should be grown.

Tree Rubbers, 5 to 6 branches 6 feet high worth $7.50 at $5.50. Same 4 feet high in 10-inch pots worth $5.00 at $3.50. Same 3 feet high in 10-inch pots worth $4.00 at $2.50.

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Straight Rubbers 5 feet high in 8-inch pots worth $2.00 at $1.50. Same 4 feet high in 7-inch pots worth $1.50 at $1.00.

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Geranium "MARS"

	Per Doz.	Per 100
ROOTED CUTTINGS	$.50	$3.00
2½-INCH POTS	.75	5.00

Cash with order, please.

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SPECIAL FOR 14 DAYS ONLY.

25,000 Coleus, 2½ inch pots, Golden Bedder, Verschaffeltii and Mixed Variegated, $12.00 per 1,000. Good cutting on every plant.

Also well-rooted Geranium cuttings. No better to be had.

U. S. Grants, La Favorites and others. $1.25 per 100; $10.00 per 1,000.

Smilax, 2½ inch pots, good strong plants, $6.00 per 1,000. Cash with order, please. Address

R. I. HART, Mgr., P. O. Box 244, Hackettstown, N. J.

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XX strong plants, per doz., $3.50; per 100, $27.50
" " for 8-inch pots.....per doz., $3.00; per 100, $20.00
Medium size, " 2.00; " 12.00

ERICA FRAGRANS, 5 & 6-in. pots, per doz., 4.50
Extra fine plants.

DUTCH BULBS & INDIAN AZALEAS now at hand.

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	Per 100	Per 100
Argentea guttata	2-inch, $2.00;	3½ inch, $4.00
Feastii, Speculata	2-inch, 2.00;	
Rubra	2-inch, 3.00;	
Bertha Chatteaurocher, Robusta		3½-inch, 4.00
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Roses—La France	$3.00 per 100; Meteor	2.50
White, Pink and Yellow Rambler		3½-inch 4.00

Full standard list. 2½ in., 3½ in and 4 in.

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The finest **SEED**, as usual, $1.00 per package, 3-16 ounce.

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Per 100, 50c.; per 1000, $2.50.

FERNS, 300 assorted.....per 100, $2.50

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	Per 100
DRACAENA Indivisa, 6-in. pot grown,	$20.00
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UMBRELLA PLANT, 4-in., fine	4.00
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COLEUS Klondike, rooted cuttings	1.50

See Chrysanthemum Number for other stock.

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Violet Clumps!

Luxonne, $5.00; Admiral Avellon, $4.00; California, $3.00; Russian, $3.00; Swanley White, $4.00.

CANNA CLUMPS. Try some of our pink Cannas.

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GERANIUMS S. A. Nutt, Marvel and other standard varieties, 2-inch pots, $2.00 per 100.

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BOUGAINVILLEA, large bushy p'lants, 4-in. pots, $10.00 per 100.

Carnations all sold.

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All the new and leading varieties. Contracts for rooted cuttings made now. Send for prices, stating what you want.

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STRONG CANNA TUBERS

of 1 to 3 eyes.

NEW—Florida, Gloriosa, Surprise, Pres. McKinley. $5.00 per 100.

Mme. A. Bouvier, Flamingo, Alsace, Sonv. de Antoine Crozy. $3.50 per 100.

Italia, Queen Charlotte, Chicago, Philadelphia Eldorado, Comte de Bouchand, Papa, Glory de Montet. $2.00 per 100.

Burbank, Florence Vaughan, Egandale, Salmon Queen, Sunset Glow, Mme. Crozy, Chas. Henderson A. Bouvier, John Laing, Paul Marquant, Austria, and many more. $1 50 per 100.

Full 1000 of Burbank, Austria or Egandale, $8.00.
Full 1000 of Florence Vaughan or Queen Charlotte $15.00. (All others named, 10 per cent. off by the 1000.)

ORDER NOW. Nothing reserved at these figures.

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Pampas Plumes. Crop 1898.

Size in length, exclusive stems. First-class in every respect.

	Per 100
17 to 20 inches	$.75
20 to 22 inches	1.00
22 to 24 inches	1.25
24 to 27 inches	2.00
27 to 30 inches	3.00

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Roemer's Superb Prize Pansies.

Seed and Seedlings sold out. Large Plants for early winter blooming ready now.

$1.00 per 100. Cash with Order.

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Finest mixed. Good little plants for cold frames. $4.00 per 1000, express.

Seed, $1.00 per pkg, $5.00 per ounce.

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Grower of the Finest Pansies.

Smilax

EXTRA FINE, 12½ cts. per string.
ANY QUANTITY.

A. J. BALDWIN, Newark, O.

Rochester, N. Y.

Poor business and bad weather could not prevent our florists from visiting the chrysanthemum show of our neighbors in Buffalo. Nine members of the craft started last Thursday on an early train for that place and on reaching their destination they rolled up their trousers and under the protection of their umbrellas, marched up Main street. The spacious quarters where the flowers and plants were exhibited were admirably adapted for the purpose, being located in the most central part of the city and if the weather had not been so unpropitious, the show might have been a great financial success. The exhibits, especially of specimen plants, were highly creditable to the growers and the whole was arranged in a praiseworthy, harmonious manner, but the attendance had been, up to that time, remarkably small.

Peter Barr, the eminent English horticulturist, was in town during the week, viewing the parks and inspecting the principal nurseries and greenhouses.

J. B. K.

ST. JOSEPH, MO.—J. N. Kidd has been holding his third annual chrysanthemum show in Odd Fellows' Auditorium which he rented for the purpose. He made a very creditable display and attracted a large number of admiring people.

FREDERICK, MD.—The annual exhibition of the Frederick County Horticultural Society was held November 8 to 12 and was very successful. There were numerous entries in each class, the principal prize winners being J. C. Hardt, O. P. Bennett, David Goff, Miss Minnie Miller, Silas Butler, C. Herman, H. C. Keefer and C. E. Kemp. Henry Fischer, of Baltimore, acted as judge.



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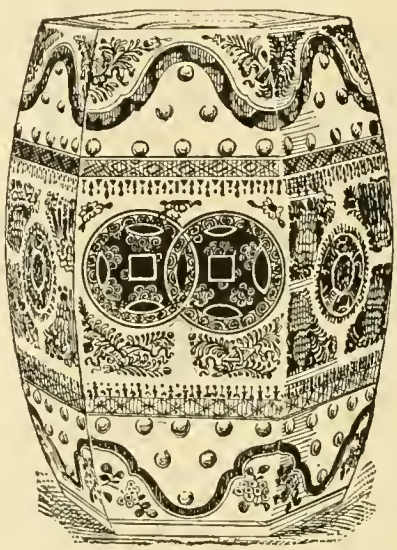
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OUR POTS ARE OF THE BEST QUALITY.
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THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. Send for circular and descriptive price list.

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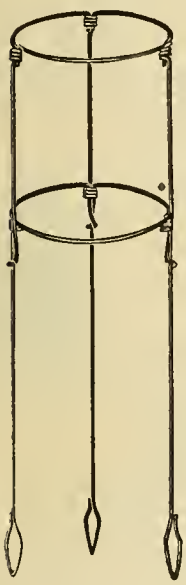
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Kansas City, Mo.

Chrysanthemums have invaded the flower stores, almost to the exclusion of other stock. The blooms are large and many hued, the consensus of opinion being that the stock is as good as in any former year. Prices are not high, good flowers retailing at $1.50 per dozen and choice blooms at $3 per dozen.

American Beauties are cheap, considering the size and quality of the buds. The best flowers have not brought over $5 per dozen at retail and from that figure the prices realized range downward in proportion to the length of the stems. Violets, the odor of which is largely imaginary and the size quite microscopical, are plentiful. Carnations are, as in other places, in short supply and growers are harvesting the 2-cent flowers of which we read so much. Of roses other than Beauties there is no over-stock and good flowers sell readily at fair prices.

The MODEL Extension Carnation Support



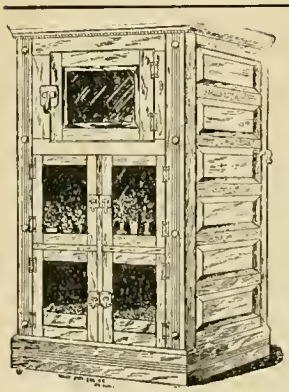
QUEENS, N. Y., Feb. 16, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.
Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97.
MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem Without hesitating we indoree it as an up-to-date carnation support. Yours truly,
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W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes
AT LOWEST PRICES.
Write for Prices, Circular and Special Discounts for Early Orders.

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Throw more than half the hard work and worry of caring for your flowers and plants on that quick-acting, safe, sure fertilizer,
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save time and trouble and money too. The "Imp" furnishes ideal nourishment from the very start. It produces a luxuriant, vigorous growth. Convincing testimonials, fuller information, and prices, for a postal to
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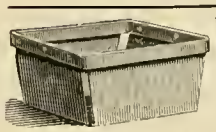
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is a scientifically prepared fertilizer which every one of your customers should have and will want when you show it to them.
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IN BULK	Per ton
Pulverized, car lots	$8.00
Natural, car lots	4.00
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Pulverized, less than car lots	12.00
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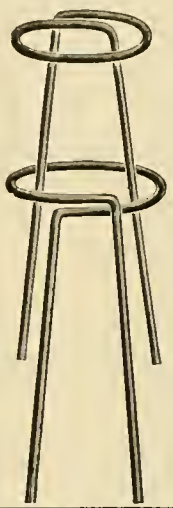
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Berry Crates and Baskets a specialty. Facilities unsurpassed. The lowest prices.
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OVER TWO MILLION IN USE.
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EDW. J. TAYLOR.
PRICES—To test the value of this adv., we will, if you mention this paper, send you 100 any length we make for 75c.; 1000 either 10 or 13 in. long for $6; 1000 either 18 or 20 in. long for $7.

CALVANIZED
STEEL ROSE STAKES.
2 feet long, $4.00 per 1000
3 feet long, $6.00 per 1000
4 feet long, $7.00 per 1000
Cut any length at proportionate prices.
H. F. LITTLEFIELD,
Worcester, Mass.

NIKOTEEN
IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE
DOES NOT INJURE THE MOST SENSITIVE PLANTS—ENDORSED BY PROMINENT FLORISTS—USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT—200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN——CIRCULAR FREE—
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Denver.

LARGE STOCKS OF VERY FINE FLOWERS.—THE GALLUP COMPANY HAS A FIRE AND DISPOSES OF ITS BUSINESS.

In taking a survey about the various greenhouses one is surprised to find such large stocks, all in fine condition, in a comparatively small city. The Park Floral Company, Mrs. R. Mauff and the Colfax Avenue Greenhouses might be proud to exhibit their chrysanthemums in competition with any eastern city. Our steady sunshine seems to give a richness of color which is hard to excel.

W. C. Bates, an old settler in Denver, has associated himself with Perry C. Gallup. They have leased the new store and connecting greenhouses of the Gallup Floral Company and will increase their stock and do their best to keep up the reputation for good work which the Gallups have enjoyed for twenty years. The latter firm has been led to think that the prophecy of hail stones and coals of fire has been visited upon them. Their extensive plant was destroyed by hail in the spring, and one night early in the present month fire broke out in a small range of hot houses at their home place. Fortunately there was no wind or the houses adjoining and the stables, with horses and vehicles, would have been consumed. The entire stock of one house was destroyed, including ferns, poinsettias, and a whole bench of rooted cuttings. G.

HAGERSTOWN, MD.—The annual chrysanthemum show of the local amateur growers proved a great success. Florists exhibited only roses and carnations, but they were fine.

Hot-Bed

Sash.

Tenons white-leaded. Corners secured with iron dowel pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments.

We have in stock and can ship immediately:

3	ft. x 6 ft.,	3 rows	10 in.	glass.	
3 ft. 3 in. x 6 ft.,	4	"	8 in.	"	
4	ft. x 6 ft.,	5	"	8 in.	"

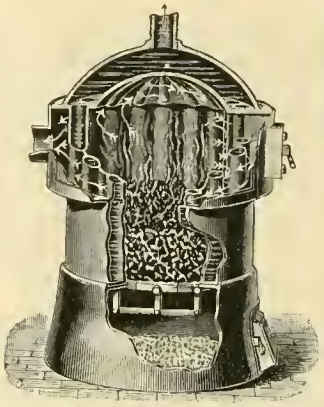
Not glazed, 1¾ in. thick.

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Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

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"DORIC" HOT WATER HEATER. SECTIONAL VIEW.

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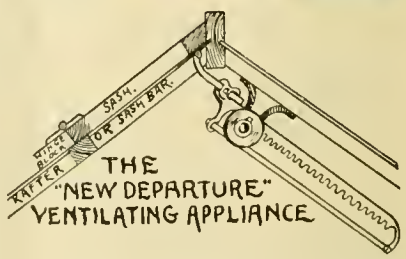
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Trade during the past week has shown an improvement although prices have not advanced. Chrysanthemums are very plentiful, the late varieties coming in freely, and generally the quality is good.

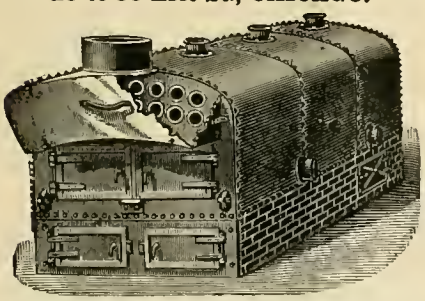
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Randolph & McClements report business very good last week. They were fortunate in securing the decorations for three of the largest affairs of the season, the ball given at the opening of the new Schenley Hotel, the banquet given by the Chamber of Commerce to Andrew Carnegie, and a banquet given by Mr. Carnegie, all of them held at the Schenley. The latter function was the most elaborate of all, the decorations being the finest Randolph & McClements have ever executed. The ball room was divided by a screen of smilax and palms extending from floor to ceiling, thus making a room just the right size for the purpose.

R. W. Greenlaw, representative of N. F. McCarthy & Co., Boston, visited Pittsburg and Allegheny for the first time this week. W. F. Kasting, Buffalo, paid us a flying visit on Monday. REGIA.

HARTFORD, CONN.—The annual chrysanthemum exhibition of the Connecticut Horticultural Society was held at Putnam Phalanx Hall on November 8, 9 and 10. In cut blooms A. N. Pierson was awarded five first prizes and two seconds besides first on display of roses. John Coombs took two firsts, one second and one third. Thomas Drysden had everything his own way in plants on which he took ten first prizes. The display of herbariums prepared by the school children was very interesting and creditable. Four medals were also awarded to children for well grown plants.

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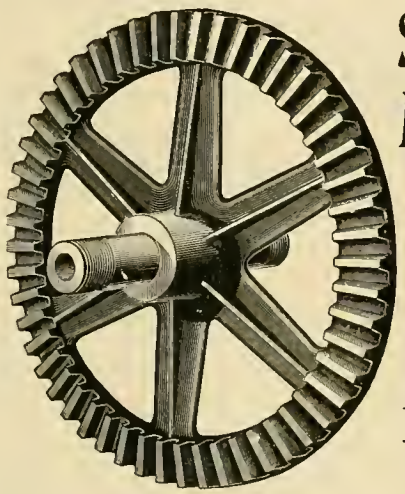
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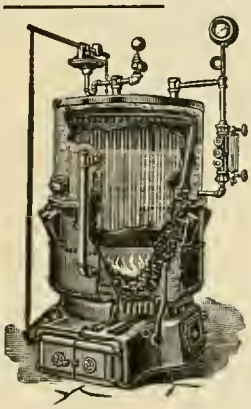
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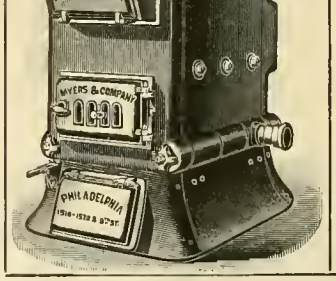
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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fifteenth annual meeting will be held at Detroit, Mich., August, 1899.

OFFICERS-ELECT [to be installed Jan. 1, 1899]. W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

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Another Thanksgiving.

The thirteenth bound volume of the AMERICAN FLORIST, with 1558 pages, twenty-five per cent increase over 1897, shows material cause for thankfulness. Its true friends, its old friends and new ones, have nobly stood by the old ship. The able bodied seamen, the rank and file of our subscribers, have steadfastly done their part. Our advertisers have shown their faith by largely increased patronage. Let us be truly thankful that, though the watch changed at night, or in the storm, an honest pilot has promptly laid firm and loyal hands upon the wheel.

THE EXHIBITIONS.

THE ELMIRA HORTICULTURAL SOCIETY.

The first chrysanthemum show of this society was a great success and the quantity of high class flowers on exhibition was a surprise even to the managers. Among the displays from out of town was an extensive collection from Cornell University, accompanied by C. E. Hunn, the grower, who exhibited a large number of new varieties. Mr. Hunn also acted as judge of the exhibits, assisted by C. W. Ward, of Cottage Gardens.

Mr. Ward brought a fine display of his unexcelled flowers, and his new yellow seedling, Admiral Dewey, attracted a great deal of attention. It is a Japanese reflexed, deep, clear orange yellow in color, as deep and clear as Thornden. The flower is very full and apparently is a good shipper as well as an exhibition sort. His seedling, Carrie Belle, is a delicate shell pink in color, Japanese incurved, well rounded in form and is a dwarf grower. Mr. Ward's vases of Eureka and Western King were among the most attractive in the hall.

Nathan Smith & Sons sent a splendid exhibit from Adrian, Mich., their samples of Pennsylvania, Intensity, Gurda and Thornden being especially fine. J. E. Anthony, gardener for Mrs. Magee, of Watkins, N. Y., brought a fine collection of pot plants, also foliage plants and a fine collection of cut blooms, his Silver Cloud being remarkable.

John Rudy, gardener for Hon. J. S. Fassett, exhibited a splendid lot of flowers. His Ivorys were almost perfect and Viviand-Morel, Chempwec and Frank Hardy were all well done.

The contest for the Eclipse wheel was very spirited. Grove P. Rawson, won with a yellow sport from Chadwick, of grand size, form and color. He was closely followed by Wm. Paul Binder, of Rider, Md., Nathan Smith & Sons and Geo. F. Atkinson, of Orange, N. J.

The other prizes were awarded as follows: Collection of twelve varieties, first, Rawson, with his new Eclipse, Wm. H. Chadwick, Viviand-Morel, Mrs. O. P. Bassett, Mrs. W. C. Egan, Niveus, Geo. West, Riverside, Miss Georgiana Pitcher, Silver Cloud, Chas. Davis and Mayflower. E. M. & H. N. Hoffman took second with Niveus, W. H. Lincoln, Pink Ivory, Modesto, Mrs. Geo. J. Magee, Queen, Chas. Davis, Philadelphia, Maud Dean, Georgiana Pitcher, Pitcher & Manda and Chempwec. Best six varieties went to Rawson with Eclipse, Chadwick, Modesto, Iora, Chas. Davis and Viviand-Morel. Rudy took second with Bonnaffon, Philadelphia, Viviand-Morel, Pitcher & Manda, Clinton Chalfant and Mrs. Murdock. Best six pink went to Rawson with Helen Bloodgood; Rudy second with Viviand-Morel. Best six yellow, Rudy first with Bonnaffon and second with Modesto. Best six white, Rawson first on Chadwick; C. W. Ward second with Eureka. Best six bronze or red, Nathan Smith & Sons, first with Nyanza; Rawson second with Hicks Arnold. Best vase, Rawson first with mixed varieties tastefully arranged. Best single bloom of 1897 introduction went to Rudy, with Chempwec, beating Chadwick and Frank Hardy.

The hall in which the show was held was admirably adapted for the purpose. The platform was filled with decorative exhibits by Mr. Rawson and brilliantly illuminated with incandescent lights. One of the alcoves was fitted up by E. M. & H. M. Hoffman as a drawing room, with mantle, rugs and furniture, ferns, palms and chrysanthemums. A well executed design representing a bicycle was exhibited by Mrs. H. D. Wells. Rawson and the Hoffmans also showed fine samples of their roses, carnations and violets.

Best of all, the exhibition was a financial success and the managers are already planning for the next one. H. N. H.

NEWPORT HORTICULTURAL SOCIETY.

Well indeed may the members of the Newport Horticultural Society be proud of their chrysanthemum exhibition for it was a grand one and a success financially. The hall in which the show was held was tastefully decorated and a large arch was erected at one end of the hall, measuring twenty feet at the bottom by twelve feet in height, and covered with Clematis paniculata, Asparagus plumosus and white and yellow blooms of chrysanthemums.

Between the columns of the arch a table was placed upon which seedling chrysanthemums and novelties of various kinds were exhibited. In the rear of the arch stood a permanent stage which had the appearance of a balcony and was prettily decorated with asparagus, chrysanthemums and electric lights. On the balustrade of the balcony stood two immense plants of Nephrolepis Bostoniensis.

The specimen chrysanthemum plants occupied a large space through the center of the hall. At one side and end groups of palms and chrysanthemums and groups of foliage plants were arranged. On the opposite side of the hall two rows of tables stood that ran the length of the hall and upon which the exhibit of cut blooms was made. Suspended from various points in the hall and looped to



PENNOCK BROS.' TABLE DECORATION AT THE PHILADELPHIA SHOW.

the center were rows of electric lights of red, white and blue.

The cut bloom exhibit was the center of attraction and was much admired. The flowers were of enormous size and showed to best advantage. The exhibition was advertised to run three days but an extra day was added. The specimen plants were moved from the center to the sides of the hall each evening at 8:30 and dancing continued until midnight.

On the fourth night of the show some of the specimen chrysanthemum plants and cut blooms were sold at auction, the plants bringing from $1 to $3 each. Cut blooms were sold for 25 cents per half dozen. The committee shut down on the cut bloom sale on account of the poor prices they brought and gave the remaining flowers away to their friends.

The judges on plants and flowers were James Wheeler, Brookline, Mass., Richard Gardner and Bruce Butterton, of Newport.

Among the principal exhibitors and prize winners were Chas. D. Stark, Andrew Meihle, Robert Laurie, James Garthley, John Barr, Wm. Donald, H. H. Rogers, J. B. Bailey, Alex. McLellan, Alex. Mackay, W. C. Russell, Farquhar Macrae, John Allen, Richard Gardner, Geo. Taylor and Jos. McLeish. J. J. B.

TABLE DECORATIONS AT PHILADELPHIA.

The decorated dinner table competition on the third day of the Philadelphia exhibition brought entries from Hugh Graham, Pennock Bros. and Joseph Kift & Son. Graham's table was eight feet in diameter, with a hollow center of about four feet, which was filled with specimen blooms of his yellow chrysanthemum, Pennsylvania. The flowers were cut and placed in moss, the heads of the blooms filling the space as would a low plateau, but having long stems the effect was loose and graceful and much more effective than the old style arrangement. Around the base of a tall, slender glass vase which rose out of the center were cypripedium plants in bloom. A few large sprays of oncidium, together with lilies of the valley, gave an air of daintiness and finish to the whole design. The vase was filled with fine specimen Pennsylvania chrysanthemums. Garlands of violets were entwined around the vase and carried out among the flowers at the base. A large bow of violet tafleta ribbon with long ends was attached midway of the vase, seemingly to hold the violets in place. Corsages of double violets and lilies of the valley tied with violet taffeta ribbon were the favors for the ladies and boutonnieres of the same flowers were placed for the gentlemen. The necessary china, glasses and silver, together with candelabra with yellow shades completed the decoration. This was one of the handsomest tables ever exhibited before the society and justly received the first prize.

Pennock Bros.' entry was arranged on a table six feet in diameter. The decorations consisted of Kaiserin roses, orchids and lilies of the valley. A tall vase of Kaiserins formed the centerpiece. Six glass vases set at regular intervals around the table contained six to eight cattleyas each. Favors for the ladies consisted of a half dozen flowers of Dendrobium formosum, with Adiantum Farleyense. One flower of same and lilies of the valley formed the boutonnieres. This, together with sprays of lily of the valley arranged radiating from the center on the cloth and the necessary tableware completed the decoration and received second prize.

Joseph Kift & Son's table was nine feet in diameter, with a four-foot hollow center which was filled with yellow chrysanthemums, Mr. Harris' Our Dear Friend, on long stems. Asparagus Sprengerii and croton leaves decorated the cloth. In the center was a tall silver vase filled with large white chrysanthemums. China, candelabra and silverware were also added.

These entries attracted considerable attention and were a great addition to the show, but competition of this kind should be made on tables of the same size and shape which should be specified in the schedule and supplied by the society.

K.

INDIANAPOLIS SHOW NOTES.

Fewer entries than last year were made for our twelfth annual flower show, and had it not been for the great efforts of some of our local florists, especially H. W. Rieman, a somewhat bare appearance of the hall could hardly have been avoided. The Chicago show being in the same week no doubt had something to do with this. Fears, too, that the



HUGH GRAHAM'S TABLE DECORATION AT THE PHILADELPHIA SHOW.



GENERAL VIEW OF THE INDIANAPOLIS EXHIBITION.

premiums might not be paid in full probably kept many away who exhibit mainly for what there is in it. But in spite of this we had magnificent exhibits of chrysanthemums, plants as well as cut flowers.

Florists unanimously pronounced as the finest in the hall seventy-five single stem plants each of Major Bonnaffon and Mrs. Robinson, exhibited by Crabb & Hunter; the uniformity and perfection of stem and flower caught the eyes of everyone. J. Heidenreich's twenty-five plants of Mme. Perrin were also much admired. W. H. Rieman and Hukriede & Son made good exhibits of specimen plants, and to the former went a well deserved first prize for the largest and best ten blooms of one variety for flowers of Mrs. H. Weeks. Stuart & Haugh took second in this class for Mrs. Robinson. They also received first for fifteen varieties, three blooms each, with a collection in which H. W. Longfellow, Bonnaffon, Mme. Perrin and Mrs. W. C. Egan were prominent. A few more striking features in the line of chrysanthemums rewarded with blue ribbons were twenty-five blooms of Mme. Perrin exhibited by J. Heidenreich, twenty-five Mrs. Robinson grown by H. Rieman, a fine vase of one hundred blooms of pompon varieties shown by Nathan Smith & Son, and a table of H. W. Rieman's seedlings. For the best group of fancy decorative plants the Bertermann Floral Company received first and Rieman second prize.

We had an elegant display of roses this year, though more entries might have been made. As usual the South Park Floral Company took first on most of their entries, and W. W. Coles, as usual, had the best of Kaiserins. Bertermann Floral Company took first and H. Rieman second on a display of roses, not less than 300 flowers.

Fred Dorner & Son, W. W. Coles, South Park Floral Company and Stuart & Haugh shared honors in the display of cut carnation blooms.

Financially the show was no success, and it will only be possible to pay fifty-five or sixty per cent of the premiums to Indiana exhibitors, while those outside of the state will receive premiums in full.

The entries and prizes were as follows: H. W. Rieman, forty-two entries, nineteen firsts, thirteen seconds, seven thirds. Bertermann Floral Company, twenty-four entries, ten firsts, five seconds, six thirds. Stuart & Haugh, Anderson, Ind., eighteen entries, eight firsts, six seconds, two thirds. E. G. Hill & Co., Richmond, Ind., seventeen entries, three firsts, four seconds, three thirds. Hukriede & Son, fourteen entries, one first, nine seconds, four thirds. John Heidenreich, nine entries, seven firsts, two seconds. M. A. Hunt, Terre Haute, Ind., two seconds. Nathan Smith & Son, Adrian, Mich., eight entries, three firsts, four seconds. South Park Floral Company, New Castle, ten entries, six firsts, one second. Mrs. Larson, seven entries, one second, two thirds. Crabb & Hunter, Grand Rapids, seven entries, four firsts. W. W. Coles, Kokomo, four entries, three firsts. G. Tielman, Marion, Ind., three entries, one first. F. Dorner & Sons, Lafayette, two entries, one first. W. A. Chalfant, Springfield, Mo., two entries, one third. H. JUNGE.

NORTHAMPTON, MASS.

Owing to a misunderstanding with the weather bureau the opening day of our show brought one of the worst storms of the season, and for a time it looked as if the exhibition would be a failure, but the growers of this vicinity were not to be baffled by anything so thin as water, and by mid-afternoon the exhibits were all in place.

As compared with previous shows the plants were not up to the standard, there being none that could be called first-class, but in artistic arrangement and nicety of detail this show far surpassed its predecessors. The front of the hall was occupied by a large and beautiful group of plants from the botanical garden of Smith College, and included the best chrysanthemum plants in the exhibition, some nice palms, dracænas and many others.

Alex. Parks made a fine triangular mound of palms, ferns and other foliage plants, interspersed with which were some nice chrysanthemums which showed up well among the green. This group won many words of praise for its artistic arrangement and the fine health of the plants.

Donald Macgregor was, as usual, the largest exhibitor and showed a square pyramid that contained some specimen adiantums that would cause one to go far to find their equal. While the chrysanthemums in this group were not what Mr. Macgregor usually shows they were covered with nice bloom and stood erect with scarcely any staking. A nice specimen of Pandanus Veitchii was in his collection.

The N. L. Hospital showed a collection of chrysanthemums which had some good blooms, but the plants were rather tall, owing to the limited space in which they were grown. Frank Hardy and Black Hawk showed up quite well and will evidently be more extensively grown here next year.

A feature of the show which attracted considerable attention and gave opportunity for the study of botanical names was the private collection of ferns of E. J. Canning, which contained all our native species.

In cut blooms the only exhibitors were Messrs. Parks and Macgregor, both of whom made fine showings of standard varieties. In carnations the same gentlemen had it out between them and both showed nice blooms of Flora Hill, Tidal Wave, Jubilee and others. Mr. Macgregor showed his pet seedling, which he exhibited at the Boston show. It is of the color of Tidal Wave at its best, but, unlike that variety, it is borne on long stiff stems and shows its deep color to the last.

Owing to bad weather the first day's attendance was just three paid admissions, but on the second day the sun shone and people came in sufficient numbers to make the show a financial as well as floral success. G. W. THORNILEY.

NEW YORK GARDENERS' SOCIETY.

Following is the prize list of the New York Gardeners' Society's flower show, held at 64 Madison avenue, New York Saturday, November 19, 1898:

Chrysanthemums: Twenty-five blooms in twenty-five varieties, first, I. L. Powell, Milbrook, N. Y. Display of pompons,

first, Wm. Harvey, Rye, N. Y. Twelve blooms, twelve varieties, shown on boards, first, Jos. Dexter, White Plains, N. Y. Six blooms, six varieties, first, W. C. Russell, Milbrook, N. Y. Six blooms Jerome Jones, first, Wm. Turner, Tarrytown, N. Y. Six blooms Major Bonnaffon, first, Geo. Winslade, Mamaroneck, N. Y. Six blooms Golden Wedding, first, W. C. Russell.

Six blooms, white, first, Wm. Duckham, Madison, N. J. Six blooms, bronze, first, Geo. Winslade. Six blooms, crimson, first, Alex. McKenzie, Blauvelt, N. Y. Six blooms, yellow, first, W. C. Russell. Six blooms, pink, first, Peter Duff, Orange, N. J. Six blooms any other color, one variety, first, W. C. Russell. Twelve blooms, twelve varieties, first, John G. McNicoll, Lawrence, L. I. One bloom of new variety not yet in commerce, first, W. G. Gomersall, Fishkill-on-Hudson, N. Y. Six blooms of variety not yet introduced in commerce, first, C. W. Ward, Queens, L. I. Six blooms, Frank Hardy, first, Andrew Laaffe, Irvington, N. Y. Collection of pompons, first, A. D. Rose, Jersey City, N. J. Twelve plants in 6-inch pots, first, John G. McNicoll.

Collection of cut flowers, chrysanthemums excluded, first, I. L. Powell. Best seedling carnation, first, W. C. Russell. Display of carnations, first, W. C. Russell. Best twelve American Beauty, first, I. L. Powell. Best twelve Bride, first, John Downing, Oceanic, N J. Best twelve Bridesmaid, first, John Downing.

New rose, Lady Dorothea, certificate of merit awarded to John Dunlop.

At the close of the show the prizes were presented, and several speeches were made.

BROCKTON, MASS.

The first exhibition of the Florists' and Gardeners' Club was a grand success and creditable in the highest degree to those who as officers and committees have worked so hard to bring it about. It was essentially a commercial florists' exhibition, but few private establishments being represented with the exception of that of Mr. Oakes Ames from which came a noble table of rare orchids and a grand group of decorative plants, not for competition, and whose head gardener, R. M. Grey, served as a judge, in company with Farquhar Macrae and A. H. Fewkes.

The hall was well filled with groups effectively placed, the responses to the committee's requests having been unprecedentedly liberal. Besides the large Ames group there was another of decorative plants from Copeland & Cooper which received the first premium. Thomas Greaves was the principal prize winner in the chrysanthemum plant classes but Jas. Garthley and Wm. Keith took first and second on single specimen. In the cut flower classes there were numerous entries and an enormous aggregate display of superb blooms. Among the prize winners were W. N. Craig, who took one first and three seconds, Farquhar, who took three firsts, James Garthley, who took one first and two seconds, S. S. Peckham, Geo. Hollis, Mann Bros., Wahan Conservatories, A. M. Bridgeman, A. Packard, John McFarland, A. J. Fish, Copeland & Cooper, B. L. Clark and B. Allen.

Carnations were shown in great abundance. C. W. Graham took one first, Thos. Greaves three firsts, Mann Bros. two firsts and three seconds, Dooley Bros. two seconds and other contributors were Mrs. F. Rumrey, S. S. Peckham, G. Lester Hollis, C. W. Graham and Thos. Greaves. The prizes for table decoration were awarded, first to Copeland & Cooper who used American Beauty roses, and second to B. Ellis Eaton who used orchids. For mantel decoration H. E. Barrows was first and B. Ellis Eaton second, both having used mainly roses. There were also many baskets, wreaths and other florists' productions shown, besides violets, geraniums, etc., in large quantities. The stage was effectively hanked with plants behind which the orchestra was stationed. The public patronage was large, much better than the promoters had dared to hope, and the generous action of the club in extending a free invitation to the school children was commended by the local papers in such an appreciative manner that there is no doubt the people will remember the club kindly when it again asks for their support.

WINONA, MINN.

This year's chrysanthemum show was the best on record, the plants and blooms being much superior to those of past years. All the local florists and some private growers sent fine exhibits, notably those from Youmania, Siebrecht, John Wunder and the Woodlawn Greenhouses. All the leading varieties of chrysanthemums were shown, including Modesto, Bonnaffon, Western King, Maud Adams, Golden Wedding, Cheabeague, Philadelphia, Viviand-Morel, Eugene Dailledouze and The Bard.



CHRYSANTHEMUM META.

CHRYSANTHEMUMS.

CHRYSANTHEMUM META.

Meta, John N. May's new white chrysanthemum with pale lemon yellow coloring at the base, is represented in the accompanying illustration. It has been certificated at Philadelphia, Boston, Chicago, Morristown and Orange, N. J., and has attained an average growth of from three to three and one half feet, with foliage well up to the bloom. The first flowers were cut October 20 and the last were cut November 17 in first-class shape. Most of the blooms were ready by the earlier date, but many were left on to see how long they would keep in good condition.

WORK OF THE COMMITTEES.

BOSTON.—John N. May, Summit, N. J., exhibited 12-95, Japanese incurved, white with slight cream tinge; scored commercial scale 77, exhibition 79 points.

PHILADELPHIA.—John N. May exhibited 12-95, Japanese incurved, creamy white: scored commercial scale 86 points. H. Tong, Erie, Pa., exhibited No. 4, Japanese incurved, white and very delicate blush; scored commercial scale 86 points. Nathan Smith & Son, Adrian, Mich., exhibited Idavan, Japanese incurved, delicate pink, center creamy white; scored commercial scale 85 points.

CINCINNATI.—H. Tong exhibited No. 4. Japanese incurved, between white and blush pink; scored commercial scale 78, exhibition 80 points.

CHICAGO.—John N. May exhibited No. 12, Japanese incurved, white; scored commercial scale 92 points.

NEW YORK.—C. W. Ward, Queens, N. Y., exhibited David S. Ward, Japanese incurved, white; scored both scales 86 points. Rough Rider, by the same



SOME OF THE PLANTS EXHIBITED AT BUFFALO.

grower, Japanese incurved, pink; scored commercial scale 76 points. Also Admiral Dewey, Japanese reflexed, chrome yellow; scored commercial scale 74 points. Geo. Gibson, E. Islip, N. Y., exhibited Mrs. Bradish Johnson, Japanese, pink; scored commercial scale 70 points. A. Herrington, Madison, N. J., exhibited Florham, Japanese, close incurved, yellow; scored commercial scale 73 points.

ELMER D. SMITH, Sec.

CARNATIONS.

CULTURAL NOTES.

November 26.—Bursted calyxes afford quite a problem for they mean a serious loss to the grower whose plants thus misbehave. Mixed in with good flowers bursted blooms spoil the whole lot and if rubber bands are put around them it is only a matter of time until the grower finds his flowers down to the lowest notch of the market. If from any cause they are part of the cut it is far better to bunch them separately, taking for them whatever the market will allow.

Before discarding a variety prone to split its calyxes it is well to be sure that the bursting is not the result of some fault in your method of culture instead of a fault of the variety itself. Flora Hill, the first year of its introduction, was condemned by many growers on account of its propensity to burst, but to-day no careful grower would take the bursted calyxes it produces into account when considering the value of the variety.

Growers of seedlings should be careful not to introduce a variety that does not have a good calyx, for, while it may be handled successfully by a few careful growers, it gets into such a variety of hands and houses that it will likely meet with general condemnation. The American Carnation Society recognizes the value of a good calyx and gives fifteen out of 100 points to the calyx in judging a new carnation. The introducer of a variety should judge it just as severly before he risks his reputation by sending it out.

Aside from an inherent tendency there are causes which will lead any but those having exceptionally strong calyxes to burst. First of these is an irregular or a continued low temperature. Firing up to 55° one night and letting the temperature fall to 40° the next will invariably produce split calyxes. The same rule applies to dark weather; during such a spell the houses should be kept a little warmer than their usual night temperature and if it continues for any length of time it is well to do a little extra firing during the middle of the day and ventilate for a few hours.

Dark weather having a tendency to produce split calyxes it is a good plan to wash the roofs of the houses about twice during the season so that the plants may have all the light possible. A boy at the end of a hose and a man with a mop can get over considerable roof in a day. To make the job complete it should be done outside and inside, choosing a clear day for the inside work so that the injury to the plants would be reduced to a minimum. If you think this would not pay, try it on a small section of glass and see the difference even where you think the roof is comparatively clean.

An excess of fertilizer in the soil will cause some varieties to burst while the reverse will cause the trouble in others; the same applies to an excess and a lack of water. Both these are matters which vary with the soil and require watching.

Another cause of split calyxes is over-propagation. Robbing the plant of too many cuttings, and thereby its growing and working foliage, will often produce an increased growth in the leaf petalage of the flower such as to burst any but the strongest calyx. This weakness seems to carry over with the cuttings taken from such plants the latter end of the season and that is probably one reason a new variety will sometimes burst badly the first season and eventually come out all right.

If, in selecting our varieties, we choose such as have long calyxes with the corolla deeply indented and then grow them in a good light house, giving careful attention to the details of heat, water and nourishment, bursted calyxes need not be a part of our winter's crop. On the other hand, if we attempt to grow them in a dark or shaded house, in uneven temperature, we can expect a goodly number of bursted ones.

ALBERT M. HERR.

ROSES.

CULTURAL NOTES.

November 26.—As the days are now becoming very short, with only a limited amount of sunshine even at the best, a careful watch should be maintained that the soil is not over-watered, as such a condition will materially check the plants and, moreover, will have a tendency to produce a very soft growth. It is better to err on the side of too little rather than too much moisture in cloudy weather.

Care should be exercised to keep the temperature at night as low as is consistent with the general health of the plants. Maintain an average of 56° for all true teas. For some of the hybrid teas, such as Meteor, a few degrees higher is necessary to develop the flowers nicely; American Beauty will also bear a slightly warmer atmosphere. Give all the air possible during the day; syringe when the weather will permit, but only in the morning. Where a good crop is now showing and it is desirable to hold as many as possible on the plants for Christmas, a reduction in the temperature of 2° or 3° at night, with a corresponding reduction in water, will greatly aid in attaining this object. Another advantage will be gained in the quality of the blooms.

Where the houses were planted in May or June and on the bench system, an application of weak liquid manure will help to make the buds swell to a larger size, but care must be used not to overdo it. It is far easier to prevent greenfly than to destroy them after they have gained a foothold and by applying tobacco in whatever form may be found best, regularly once a week, they can be kept in check; in fact, they can usually be kept out of the greenhouse altogether by persisting in this method. Once let these pests get a good foothold and they will do more damage to the plants than a dozen applications of tobacco will cost.

Mildew should certainly be entirely destroyed by this time; there is very little reason for ever having much of it. The most prolific cause of it is injudicious ventilation. If careful watch is kept on the airing of the greenhouses, never allowing the temperature to run up more than 5°

or 6° above the night range without giving a crack of air, increasing the air as the temperature rises, and reducing it in the same proportion in the afternoon, there is very little opportunity for mildew to get a footing. Another advantage of such treatment is that the general health of the plants will be much more vigorous if, in addition to this, all the dead and decaying leaves and weeds are kept cleaned away.

Tying, disbudding, etc., will also need careful attention at this season, as straight long stems have become an absolute necessity and anything else will hardly sell at any price. JOHN N. MAY.

New York.

FACTS AS TO FLORAL FASHIONS.—INFORMAL DECORATIONS FAVORED.—THE CHRYSANTHEMUM'S TRIUMPH.—INDIFFERENCE TO FANCY NAMES.—"MAKING" BOUTONNIERES.—USE OF AUTUMN FOLIAGE.—THE GARDENERS' SHOW.—A HANDSOME WINDOW.—LOCAL LINES.

Just what particular styles in floral decoration, if any, will prevail in the metropolis for the coming season, is not yet apparent. The fall has been unusually favorable for country life and many of the ultra-fashionable folk who are supposed to have a hand in setting the styles are still out of town, taking advantage of the exceptionally fine weather. Most of the fashionable events have taken place at Tuxedo and similar resorts and everything done, so far, in floral decoration has been characterized by the utmost simplicity. Indeed, it is but natural that this should be the case in these days of long-stemmed high-grade flowers, which require no artificial accessories and which to distort or cut is simply to mutilate.

As to colors for special uses entire freedom of choice exists. Harmony with the surroundings is the prime requisite and the artistic decorator is guided in his work by the draperies and other furnishings of the room. If he has true artistic perceptions he will be sure to please; if not, his efforts can only result in dissatisfaction and disappointment. Chrysanthemums have enjoyed a steady popularity this year although not at fancy prices excepting for a limited quantity of extra select stock and it would seem that they have emerged from the precarious position into which they fell with the disappearance of the "fad" on which they thrived for a number of years and have now reached a level where they are likely to stay permanently. The chrysanthemum has won on its merits; it has simply proved itself too useful for all decorative purposes to be discarded and those who have been predicting its utter humiliation are not likely to see their predictions verified. The experience of this season teaches this, if it teaches anything, and that the chrysanthemum is assured of a steady demand as a staple in its season, hereafter, for every purpose for which flowers are used, is very evident.

The quantity of chrysanthemums disposed of this year through legitimate trade channels in New York City has been very large. The number of varieties offered has been limited as compared with the time when a grower's special pride was his long list of fancy names. As to the public, they have ceased to take any great interest in the name or origin of a variety; if it is a good round full flower, of clear decided color, with rich foliage and stems sufficiently stiff, it needs no name; if it lacks in any of these essentials the most popular name on earth will not make a single customer for it.

The use of chrysanthemums on dining tables in public places has been very general and it is rare that one enters a hotel or cafe of either high or low degree without finding chrysanthemums present in some form. They have been used largely for boutonnieres also. Pink Ivory makes an ideal boutonniere without any fixing up. A prominent Broadway florist was seen recently making them up for this use and was asked why he spoiled an already perfect boutonniere by the addition of a galax leaf and purple tin foil. His reply was that the public had not yet got sufficiently educated up to understand that and that if some "manufacturing" was not spent on the flower to "make" it a boutonniere they would think they had not got their money's worth. So it seems there is still something for even New York flower buyers to learn.

He is a daring operator who will risk mixing chrysanthemums with other flowers or foliage in decorative work for it is rarely that anything can be used to advantage in combination with them. Autumn leaves, especially mahogany tinted oak foliage, are always safe, however, and make a grand effect when used among chrysanthemums. Advice to floral decorators to make use of autumn foliage and other wild outdoor products in preference to commercially grown stock is neither judicious nor fair as a rule in a journal supposed to be devoted to the welfare of the overworked florist who under present conditions needs all the encouragement that can be given him, but this suggestion as to the rich effect of autumn foliage sprinkled among chrysanthemums, cannot interfere with the use or sale of any greenhouse product, and it may bring in many a new customer for chrysanthemums.

The second annual chrysanthemum exhibition of the New York Gardeners' Society was held at 64 Madison avenue on Saturday, November 19. The display was a rich one, reflecting great credit on the many skilled gardeners who brought their products here in friendly competition and on the committee in charge, Messrs. Withers, Donlan and Marshall, who had worked so industriously in preparing for the event. Besides being a good exhibition this affair was also very much of a reunion among old friends whose opportunities for meeting together are rare and who took advantage of the occasion to rehearse old scenes and to firmly cement new friendships. The schedule comprised twenty-six classes.

Small & Sons' window on Broadway is one of the handsomest orchid decorations imaginable. A large branching tree stump, constructed of cork, which reaches to the top of the window is hung with a profusion of Dendrobium Phalænopsis, Vanda cœrulea and oncidiums with adiantum foliage and the base is banked with masses of adiantum plants among which are plunged two handsome specimens of Begonia Gloire de Lorraine.

The front of Siebrecht & Sons' Fifth avenue store is filled with a forest of home-grown kentias and other neat little palms of the most useful varieties, and they are good.

The first Paper White Narcissi and Roman hyacinths appeared at Raynor's on November 14.

C. W. Ward's new yellow chrysanthemum Admiral Dewey shows up well in John Young's window. The color is fairly dazzling.

Jerome Suydam is bringing in mignonette nearly as big as himself.

A ladies' club has been organized in New York for the purpose of analyzing and studying orchids.

Mrs. Weigert, of Forty-ninth street and Ninth avenue, has opened a branch store at Eighty-fourth and Lexington avenue.

Philadelphia.

TRADE IS GOOD AND PROMISES TO HOLD OUT.—STOCK SCARCE AND PRICES ADVANCING.—THE LIBERTY ROSE.—A CALIFORNIAN VISITOR.

The hustling time of the year for the city florist has arrived and things are booming. The store men appear to have all the orders they can handle comfortably and at the same time have difficulty in getting flowers of the kind they want. This season's debutante list is a large one and the demand for choice flowers for their coming-out teas will keep all hands busy for the next month. These orders tax the originality of the florist, as in the numerous clusters sent there must be as much difference as possible and yet retain their excellence. Nothing is too good for this work.

The dull weather of last week shortened up the crops considerably and as a consequence prices advanced. American Beauties are scarcer but have advanced more on account of the season than because of extra demand. Prices range up to $4 per dozen but $4 per dozen stock is generally cut to order as the growers do not like to cut so deep just yet. Teas, such as Brides and Bridesmaids, bring $4 to $6 per hundred.

Robt. Scott & Son are sending in good blooms of the new rose, Liberty. It is a beauty and the Meteor is left far in the rear, vase for vase on the counter, but bench for bench in the greenhouse may be another story. We are assured, however, by Mr. Scott that it is even more prolific than Meteor and that "bullheads" are unknown. It can be grown successfully in the same heat as ordinary teas, which is another important item.

Carnations are also jumping and $1.50 per hundred is asked for anything worth having. Chrysanthemums are still holding out, Bonnaffon being in good shape, with Mrs. J. Jones, Maud Dean, Ivory, Niveus and Golden Wedding. Prices range from 75 cents to $2 per dozen. Violets are typically modest these days and very retiring. Their price has advanced to $1.50 for good stock and it is very scarce at that. A few Paper White Narcissi are in at $4.

Chrysanthemum plants are selling well and house plants are also in demand. Good Boston ferns are asked for but much of the stock is just short of being first-class and lacks the finish that makes this plant so desirable.

S. W. Kirkpatrick paid this city a visit last week from his distant home at Gilroy, California, where he is engaged in the fruit growing industry. He has also risen to the dignity of sheriff of his county. Mr. Kirkpatrick was at one time in the nursery and florist business at Collegeville, Pa., and afterwards was connected with C. H. Grigg at Twelfth and Chestnut streets.

H. H. Bayersdorfer & Co. have their driver decked out in a fine navy blue suit, silver buttons, cap with name, etc. He is now quite in keeping with the establishment. K.

THE DALLES, ORE.—Mrs. A. H. Tackman has embarked in the florist business with a neat greenhouse.

THE AMERICAN FLORIST

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

DURING the week the palm swindler confidenced Frederick Rentschler, Madison, Wis., and M. A. Kinney & Co., Milwaukee, Wis.

AS USUAL the sharp freeze has caught some perishable stock in transit, though we think less than usual, warning having come a month since.

THERE is widespread regret at the death of A. W. Livingston, which occurred November 10. A complete account of his life will appear in our columns later.

JOHN G. ESLER, secretary of the Florists' Hail Association, has dislocated his right shoulder by falling from a four foot platform. The accident was caused by a misstep in the dark.

MAVOURNEEN, exhibited before the C. S. A. committee at Philadelphia, by John N. May, scored 83 points on the exhibition scale, not 33 as a typographical error made Secretary Smith state in our issue of November 12.

SEVERE weather has about closed green picking for the season, though some Indian pickers may continue until deeper snows come. The exact amount yet to be marketed is difficult to estimate, but there is surely no over supply.

GASTON BEYER, an orchid grower of Hamburg, Germany, says in *Die Gartenwelt* that after ten years of experiment with all kinds of fertilizers, it is his opinion that with very rare exceptions the best results are to be obtained in orchid culture without the use of artificial manures.

IN OUR ACCOUNT of the recent Poughkeepsie flower show we added two lacking names of judges as given by a contemporary. The use of these names, which were misspelled, is objected to as seriously as we regret their inaccuracy. The one correct name we had from the judge himself. Other details in our account not found in the previous one plainly refute the claim of our contemporary.

> A Mountain was once greatly agitated. Loud groans and noises were heard; and crowds of people came from all parts to see what was the matter. While they were assembled in anxious expectation of some terrible calamity, out came a Mouse. —*Æsop's Fables.*

The American Florist Company's Directory.

The final corrections are now being made for the next edition of our directory of florists, nurserymen and seedsmen, to be issued January 1, and we trust our readers will promptly inform us of any business changes which have come to their notice within the past year. Advertisements and orders for the use of large type in names of alphabetical list should be mailed as early as possible.

The Advertiser's Best Medium.

AM. FLORIST CO.—Please change advertisement now in, as per printed copy enclosed, and have it occupy half a page. In the last two issues, where I tried to see which paper gave the best returns, eighty per cent of the sales said "Saw advertisement in the AMERICAN FLORIST."

H. F. LITTLEFIELD.

Worcester, Mass., November 7, 1898.

Florists' Flower Shows.

This is the season of the year at which the enterprising florist takes advantage of the fine showing made by his chrysanthemums to invite his customers to inspect his greenhouses or his store. Among those who gave creditable shows during the mid-days of November were:

I. L. Pillsbury, Galesburg, Ill.; Irvine Floral Co., Bay City Mich.; L. Z. Farwell, Freeport, Ill.; A. C. Lamprecht, Ashland, O.; Geo. E. Buxton, Nashua, N. H.; John Bensted, Racine, Wis.; Hamilton & Plummer, Kewanee, Ill.; Nanz & Neuner, Louisville, Ky.; Fred J. King, Ottawa, Ill.; Joseph Kift, West Chester, Pa.; B. F. Crum, Joplin, Mo.; J. E. Matthewson, Sheboygan, Wis.; Long & Hudson, Janesville, Wis.; W. M. Lott, Warren, Pa.; Boehringer Bros., Bay City, Mich.; E. R. Gesler, Galesburg, Ill.; H. K. Brainard, Thompsonville, Conn., and E. B. Beals, Greenfield, Mass.; W. L. Rock, Kansas City, Mo.

Celery Pests.

ED. AM. FLORIST:—Herewith I enclose some insects which are destroying my celery, also geraniums. They work below the soil. The celery was growing satisfactorily until about the middle of October, when the outside leaves began to die. I then examined the plants and found them cut off at the base with many of these insects among the leaves. You will oblige by giving the name of the insects in an early issue of the AMERICAN FLORIST, stating also how to get rid of them. The soil in the garden is good and manured every year. How would a dressing of lime act upon these worms?

P. J. W.

The "insects" prove to be young millipedes, or thousand-legged worms, hence not true insects. We get many inquiries about how to control these pests, and several years ago we made many experiments to discover some practical method of destroying them, but had to give up, beaten. We know of no application which can be successfully made to soil which will kill the millipedes and not injure vegetation in the soil. It is said that many of them can be trapped by laying boards, etc., in infested localities; the millipedes will gather under these, where they can be collected and killed. None of the small common millipedes infesting soil in the north are poisonous as some suppose.

M. V. SLINGERLAND.

Calla Culture.

ED. AM. FLORIST:—Please advise me through your columns as to the best modern method of growing callas, giving temperature, etc. SUBSCRIBER.

The above is somewhat indefinite. The question is sometimes asked in a similar way by those who are anxious to have their callas to bloom in the window, how it may be done. We will presume information is sought along that line. The first essential is to give the calla generous treatment. It must have rich soil, and it should be supplied with abundance of water when well started into growth, and the temperature at night may be from 55° to 60°, nor will any serious injury be done if 65° is reached occasionally. If the above conditions are complied with there should be no trouble in coaxing the calla to bloom. But if side shoots which have sprouted from a flowering plant are taken in hand it may take the whole winter to grow them sufficiently strong to warrant us in expecting them to bloom. Should this be the state of affairs, when springtime comes and all danger from frost is over, they should be planted out of doors in a not too dry situation and allowed to take care of themselves until the middle of September, when they may be taken up and potted; and if the undersigned is not very much mistaken they will bloom during the ensuing season without fail.

E.

Perplexed by Condensed Stem.

ED. AM. FLORIST:—I have a twenty-horse-power horizontal steam boiler which stands on the top of the ground, on the same level with my greenhouses. The fireplace is in the ground, but on account of water I cannot lower the boiler. Under these conditions I wish to know how the condensed steam can be made to return to the boiler? Will it be necessary to have a steam pump for that purpose? If the flow pipe is run into the greenhouses overhead, with returns underneath benches, would the condensed steam enter the boiler as in heating by hot water? How could I best utilize this boiler, by steam or hot water heating?

S. F.

For the returns to carry the water back to the boiler, either a pump or a steam trap will be necessary, but neither will work well without carrying rather more pressure than will be required for heating the greenhouse. In order to have the returns free from water it is desirable to have the lower part of the coils at least two feet above the level of the water in the boiler, and in a large range of houses considerably more than this will be advisable. If hot water is used the returns can be carried at a considerably lower level, especially if a very hot flow pipe is used, and unless there are conditions that would make it impossible to use hot water, I would recommend that it be employed instead of steam. If the boiler is in good condition a closed pipe may be used which will require but little more radiation than will be necessary for steam. L. R. TAFT.

Heating Greenhouses for Lettuce Culture.

ED. AM. FLORIST:—I have two equal span houses running north and south, each 22x144 feet, connected, with no partition wall underneath the gutter. The height at ridges is from ten to eleven feet; walls four and a half feet high. I desire to keep the temperature at from 50° to 55° when the thermometer is at zero outdoors. There are no benches in the houses, only ground or solid benches for lettuces; the paths are along the sides of the houses. I now wish to know the best way to heat these two structures. So far I have no apparatus, but can readily purchase a twenty horse-power horizontal steam boiler. The houses are on level ground and I would like to have boiler on the same level. Can it be so placed either for steam or hot water? Firing with soft coal, could the apparatus be so arranged as to dispense with a night fireman, or so as not to demand

attention more frequently than every six or eight hours at night? I have a large quantity of 1½-inch and 1¼-inch pipe. How many runs or coils of these sizes would be necessary in each house? I could probably place the pipes so that the lowest run would be three feet from the ground level. If a boiler pit is unavoidable, how deep should it be? L.

It will not be advisable to put in a steam heating apparatus unless a considerable difference can be secured between the level of the water in the boiler and the height of the lower portion of the return coils. While there is always considerable risk from leaving the fire at night without an attendant when steam is used, with a boiler of ample capacity a hot water system will maintain an even degree of heat for six or eight hours. Even with hot water it will be best to have the returns even with or above the top of the boiler, but with an overhead flow good results can be obtained without this, especially if a closed system is used. While it would be desirable to use four 2-inch overhead flow pipes, 1½-inch pipes would answer, provided five are employed. Fifteen 1¼-inch returns may be arranged partly upon the side walls and partly upon the purlin posts, the latter at a height that will bring them well above the beds. L. R. TAFT.

Boston.

THANKSGIVING WEEK.—COLD WEATHER, FIRMER PRICES.—LOCAL TRADE GOOD.—CHRYSANTHEMUMS SELLING FREELY.—PAPER WHITES AND ROMANS MAKE THEIR APPEARANCE.—AN EXHIBITION.—RUFFIANS WELL PUNISHED.—MANY LOCAL NOTES OF INTEREST.

Thanksgiving week is here and the customary bustle incident thereto is noted in and about the wholesale establishments. Prices have not advanced much, about one cent on roses and half a cent on carnations on an average being a fair estimate as to the rise in prices up to Wednesday morning. Weather reports and predictions, however, indicate the near approach of wintry weather and it would not be surprising if the balance of the week should see a yet further stiffening of prices. Shipping trade seems good—fully up to the average—for the local New England trade. Outside of that territory the shipping trade of Boston is of little importance now. All the local retailers are active and the order books show a rapidly lengthening list of orders for family reunions and dinners, not baskets, cornucopias or eagles, but plain boxes of flowers to be laid at random on the table cover or arranged in bowls and vases on tables and about the room. Truly, the wire design maker has a discouraging struggle with fate nowadays, and the man he must blame for it is the expert and ambitious grower who has now brought his average product to such a high degree of perfection that "designing" is no longer necessary to patch over the defects in his flowers and in such a quantity that prices have now got where it is cheaper to buy good stock and use it as it is than to buy poor stock and "doctor" it up.

Chrysanthemums are not expensive, but the consumption of them is enormous and the aggregate returns for chrysanthemums must certainly compare well with returns a few years ago, when prices were much higher and the product much smaller. Ivory and Pink Ivory have an enormous sale and enter into almost every transaction of any extent. Pierce, alone, sells an almost incredible number every morning and he is only one of many, although the largest of our local chrysanthemum growers. Paper White narcissi, Roman hyacinths and stevia are seen in small bunches here and there, reminding us that the winter season is really here. Outside of these nothing is seen out of the usual run of stock as it has been coming in for a month past.

A small exhibition was staged at Horticultural Hall last Saturday. George McWilliam showed some more of his lovely seedling dipladenias, and for one named Elizabeth K. Whitin a silver medal was awarded. He also exhibited three seedling cypripediums. C. G. Roebling was given a certificate of merit for Renanthera Lowii, a flower spike six feet in length. There were a number of other interesting things from various contributors. The display of children's herbariums takes place on Friday and Saturday of this week.

The two ruffians who assaulted and robbed Jackson Dawson one night in October, have each been sentenced to state's prison for a term not exceeding eighteen nor less than fourteen years. Much gratification is felt over the severity of the penalty imposed, which ought to have a repressive effect on such outrages in the future.

W. E. Doyle failed to get the coveted Temple Hall non-partisan nomination for mayor of Cambridge at the caucuses on Monday evening.

The annual reunion of the employes of the Joseph Breck & Sons Corporation was held at Berkeley Hall on the evening of November 18.

The suit of W. W. Edgar against the Jos. Breck & Sons Corporation appealed by the defendent from the Superior Court is now on before the Supreme Court.

W. J. McGarry, of Charlestown, and Geo. E. Doherty have opened a flower store at 834 Washington street under the firm name of W. J. McGarry & Co.

The employes of Waban Rose Conservatories surprised Mr. John McGrath with a present of a Morris chair last Friday evening.

On Saturday night the greenhouses of H. Dumeresque, at Chestnut Hill, were broken into and a quantity of chrysanthemums stolen.

Chas. R. Langer died at his home in South Boston on November 16, aged 33 years, 8 months, 8 days.

Geo. Gill died on November 18 at Medford, aged 74 years, 6 months. The funeral took place on Sunday, November 20.

Visiting Boston: W. Th. Goethe, of Prussia.

Chicago.

BRISK THANKSGIVING TRADE.—FLOWERS IN SHORT SUPPLY AND PRICES NO OBJECT TO MOST BUYERS.—WILL DISCUSS A SPRING SHOW.—JOTTINGS.

There has been no over supply of stock this week and quantity and quality have ruled the market, not price. There have been too few good and medium Beauties and the price for the better grade has held strong at $8 a dozen. Good teas have sold very readily at from $6 to $8 a hundred and very few have gone below 4 cents or 5 cents each.

The best feature of the week has been the brace in the price of chrysanthemums. The figures have been back to the points they frequented a year or two ago. This is partly due to the approach of the end of the cut, but more to the extra demand for Thanksgiving and the scarcity of really fine flowers, the exhibition grades which were so plentiful two weeks ago. Carnations have been in fair supply this week, but the prices have held their own. Violets were rather short and sold well. Thanksgiving holly is fairly good and small lots sold readily.

At the next meeting of the Florists' Club, December 2, Emil Buettner, will present his ideas of what Chicago should have in the way of a spring flower show and the methods he would pursue to make such an exhibition a success. It is a very interesting subject and one which will doubtless attract a large attendance.

A. G. Prince brought in the first Harrisii of the season on Wednesday, November 24.

H. Bickford has opened a retail store in the Grace hotel on Jackson boulevard, the first door west of the Union League Club.

Kalous Bros., have opened a well appointed retail store at 100 Twenty-second street, between Michigan avenue and Cottage Grove.

G. S. Snedeker, who has been with A. McAdams, Fifty-third and Kimbark avenue, leaves November 28 for Melbourne, Florida.

John Schneider, a Kansas City retailer, was in town this week, and when he returned home on Tuesday he took with him 600 chrysanthemums from Reinberg, Budlong and Poehlman.

F. W. Taylor, of Omaha, who was a visitor this week, reports that the Trans-Mississippi Exposition authorities have paid a dividend of seventy-five per cent. and expect to pay from five to fifteen per cent additional.

The Shaw Banquet at St. Louis.

The ninth of the annual banquets provided for in the will of the late Henry Shaw, to be given to the florists, market gardeners and nurserymen of St. Louis, was held at the Mercantile Club November 19. The decorations were very appropriate, and small tables were scattered through the large room, each table providing for six guests.

Professor Trelease welcomed the guests in a few well chosen words and delegated the position of toastmaster to Professor Engler, of the Washington University, who is also connected in a professional capacity with the Shaw Botanical Gardens. The toasts had a bearing on the wider teaching of horticulture in the schools and universities of the state. About the only guest whose remarks did not tend in this direction was W. N. Rudd, president-elect of the Society of American Florists, who spoke of the society and its work, detailing the various points of interest developed during the successful meeting held at Omaha, and also of the effort all should make to attend the meeting at Detroit next year.

J. B. Lamm spoke of the life and works of Henry Shaw. He made a strong plea for the necessity and utility of the study of horticulture, and also spoke of the connection between this study and nature as seen by school children. A letter was read from J. Newton Basket regretting his inability to attend, but strongly favoring the teaching of horticulture to children and enumerating its benefits.

F. L. Solden, who has charge of the public school system of St. Louis, spoke of the manner in which the introduction of the new study would conflict with the established order, seeming to think that there would be very little friction between the two. He spoke very highly of the importance and necessity of the knowledge of plants and related subjects. The

principal difficulty to be overcome in introducing it into the public schools would be in keeping it from becoming a literary study, the idea being to make it as much of a natural study as possible, or, in other words, as much of an object lesson as permitted. This can only be done by having the student see plants, flowers, trees and other objects. He spoke also of the beauty that is opened to children by having them know and appreciate the beautiful work they see surrounding them.

L. A. Goodman, of the State Horticultural Society, said the trouble to be overcome at present in introducing this study is to find teachers that know enough to teach it, or how to teach it. He bewailed the general ignorance of horticulture among teachers.

W. S. Jackman, of Chicago, who is professor of natural history in the Cook County Normal School, and who was introduced as a teacher of teachers, spoke very feelingly of the benefits to be derived through the introduction of this subject in the schools. He spoke of the ignorance generally prevailing among children in the city in regard to flowers and natural beauty, saying also "that grown people could not realize the pleasure and beauty that was open to a child when properly instructed in regard to flowers and plants; that he was introduced into a new world."

Levi Chubbock, editor of *Colman's Rural World*, compared our advantages with those enjoyed in the older countries, taking as illustrations Germany and England. His remarks tended rather toward agricultural pursuits than that of horticulture. He showed that we were very much behind in this matter, although rapidly advancing in knowledge.

J. R. Kirk, Superintendent of Public Instruction of the State of Missouri, was the last speaker. He claimed that one-third of the present studies could be eliminated with benefit to the students, and the place supplied with something on the order of the subject under discussion. R. F. T.

Buffalo.

TRADE NOT BRISK.—STOCK AND ITS QUALITIES.—KASTING'S JOURNEYS.—DEATH OF PROF. HINMAN.—JOTTINGS.

Chrysanthemums are still with us but, like some of our bowlers, have seen better days. C. G. Guenther, of Hamburg, N. Y., still sends in some fine Beauties. Good violets are not plentiful.

Wm. F. Kasting returned from Pittsburg Tuesday and left for New York Friday to assist a friend in getting married.

There was no meeting of the Florists' Club last week, as the members were too tired to start in on settling up, and President Scott was laid up with a severe cold caught at the flower show, but with no blue ticket on it.

We regret to record the death of J. E. Hinman, a florist on Elk street. Although not in business a great while, he was well liked by those who had the pleasure of his acquaintance. Previous to his going into business he was principal of one of our largest schools, but owing to ill health was obliged to seek more active work. The business will be continued by Mrs. Hinman.

Roman hyacinths made their appearance November 22. Next will be Lilium Harrisii.

Prof. Cowell called last Saturday and looks fine after his trip to Chicago.

W. A.

Detroit.

BREITMEYER'S FALL OPENING WAS THE EQUAL OF MANY A CHRYSANTHEMUM SHOW.—THOUSANDS ATTRACTED.

John Breitmeyer & Sons gave their fall opening this week and made the finest display ever seen in Detroit. The mirrors around the store were framed with golden ladders and decorated with asparagus and cosmos. Vases six feet high filled with pink and white chrysanthemums stood in the corners of the store and large baskets of violets adorned the counter in front of a large mirror. A dinner table, changed each day, made a beautiful display, and wreaths of smilax suspended from the ceiling and studded with electric lights hung in the windows. The entrance to the conservatory was arched with bark to which were attached all the varieties of orchids which could be found in flower. Small ferns were placed among them and colored electric lights made the effect beautiful at night. Three thousand chrysanthemums were displayed and among them Rough Rider and Admiral Dewey caught the crowd. Western King, Mrs. H. Weeks, Philadelphia, Mme. Perrin, Sunstone and Mrs. O. P. Bassett were very fine. A number of pots of pompons were placed among them and the visitors made many comments on the contrast. Some very fine anemones were shown and the ladies appeared to be very much interested, as some of the other florists have since been asked for them. Hidden from sight a mandolin orchestra played afternoon and evening and added very much to the pleasure of the occasion. The show drew a large number of visitors and Mr. Breitmeyer estimates that nearly 10,000 people visited the store in three days. Wednesday was rose day and 1000 Beauties and Meteors were displayed. R. F.

NEWS NOTES.

BUCHANAN, MICH.—Frank A. Stryler is running a commercial place here.

BANGOR, ME.—W. L. Clement, of Stillwater, has leased the place on Main street, formerly occupied by Modery Bros., and will run it as a florists' store.

BRANDON, MANITOBA.—It will no longer be necessary for Brandon people to send to Winnipeg for flowers, as Mr. Mansoff is now prepared to supply the local market.

LOGANSPORT, IND.—Gustave H. Minx, florist at Longcliffe Hospital, who was formerly in business at Lebanon, was married on November 15 to Mary Brenneke of that place.

READING, MASS.—The tenth annual chrysanthemum exhibition at Hoskins & Giles has been on for the past week and has been favored with a very large attendance of the public.

INDIANAPOLIS, IND.—A little son has arrived at the home of John Grande. The palm swindler made his appearance in this city recently and succeeded in making Frank Saak the victim of his well known trick. H. J.

TITUSVILLE, PA.—Wm. Bay, on November 18, gave a chrysanthemum show at which he awarded a prize to the school child who grew the best plant from one of a thousand which he distributed in the spring. As an advertisement and interest awakener the idea was eminently successful.

MILLBROOK, N. Y.—The chrysanthemum show of the Millbrook Horticultural Society was held on November 10, 11 and 12. It was a gratifying success, eclipsing in some features the recent exhibition at Poughkeepsie. W. C. Russell, gardener to C. F. Dieterich, and James Blair, gardener to Ogden Mills, were winners of some of the best prizes in the chrysanthemum and cut flower classes. Memorial hall is an admirable exhibition room and the grand groups of decorative plants from I. L. Powell and W. C. Russell that filled the stage and made a background for the showy chrysanthemums were exceedingly effective. The display of roses, violets and carnations was very superior. The May cup was won by B. Willig with a fine display of violets. Gustav Thommen contributed a beautiful pyramid of begonias and flowering plants. J. N. May's new carnation Melba was shown.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By first-class fireman and steamfitter. Address Y N, care Am. Florist.

SITUATION WANTED—By rose grower, married man. Chicago references. Address T T, care American Florist.

SITUATION WANTED—By all-round workman on or before Dec. 1st. Good fireman, propagator, etc. Address N Y, care American Florist.

SITUATION WANTED—By practical florist; good salesman and maker-up; age 35, educated and refined; life experience I, care Am. Florist.

SITUATION WANTED—By a young man, 22, as assistant rose grower; 5 years' experience in greenhouse. Al references. 407, care Am. Florist.

SITUATON WANTED—Florist, 7 years' experience, roses, carnations plants; single; private or commercial. Refs. FLORIST, 55 E. Pomfret St., Carlisle, Pa.

SITUATION WANTED—By a young man of 22 years, 5 years' experience, as assistant in general greenhouse work. Address, stating wages GROHMAN BROS., Saginaw, E. S., Mich.

SITUATION WANTED—In the west Jan. 1st. California preferred, by Al grower and designer. Competent in all branches. 14 years' experience, east and west. J, care American Florist.

SITUATION WANTED—Single man, 41 years old; 7 years' experience in roses, carnations, 'mums and general stock; 4 years in last place. Good references. Address F F, care American Florist.

SITUATION WANTED—By a first-class all around man, 14 years' experience in Germany and U. S.; Also good grower of roses, carnations, violets and pot plants; sober and reliable. Best of references. Address E S, care American Florist, Chicago.

SITUATION WANTED—By German grower, age 32, married; 8 years in commercial place; 7 years as private gardener. Prefer private place. Grow flowers and vegetables both under glass and outdoors. Good references. Address GARDENER, Tivoli, N. Y.

SITUATION WANTED—As foreman by as good a rose and cut flower grower as there is in the market. Thoroughly competent in all the different departments of the trade. Only those who want such a man need answer. Address WM. P. HANNON, Govanstown, Balt. Co., Md.

WANTED—Business. Practical florist wishes to buy or rent greenhouses in good town, within 150 miles of Chicago. State particulars. PHOENIX care Am. Florist.

WANTED—2400 feet 10x12 or larger size single or double and 2400 feet rafters. No objection if second-hand material. State price. Address J. K. POSTMA, Princeton, Ky.

WANTED—To know the whereabouts of Fritz Schaefer, of Artern, Germany, said to have worked for florists around Chicago. Address EMIL BUETTNER, Park Ridge, Ill.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

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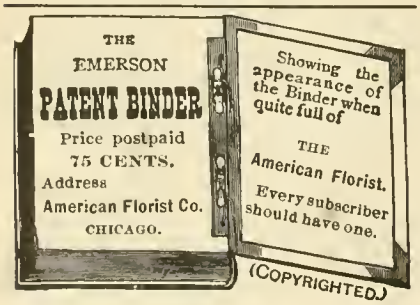
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Wholesale Flower Markets

CINCINNATI, Nov. 24.

Roses, Beauties, select	20 00@30 00
" " medium	10.00@15 00
" Brides, Bridesmaid	3 00@ 5.00
" Meteors	4.00@ 5.00
" Perles	3 00@ 4 00
Carnations	1 50@ 2 50
Lily of the valley	4.00@ 5 00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00
Chrysanthemums	5.00@15.00
Narcissus	4.00

ST. LOUIS, Nov 24.

Roses, Beauties	3 00@20.00
" Meteors	2.00@ 4.00
" Brides, Bridesmaids	2.00@ 4.00
" Perles	1.00@ 3.00
" Kaiserins	2.00@ 5.00
Carnations	1.50@ 2 50
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Chrysanthemums	5.00@25.00
Violets, California	.50
" single	.25

MILWAUKEE, Nov. 24.

Roses, Beauties, long... per doz.	3.00@4 00
" " medium " "	2 00@3 00
" " short " "	1.00@2 00
" Brides, Bridesmaids	4 00@ 7.00
" Perles	3 00@ 7.00
" Meteors	4.00@ 8.00
" Kaserins	4.00@ 8.00
Carnations, fancy	3.00@ 4.00
" good stock	2 00@ 3 00
Smilax	12.50@15 00
Adiantum	.75@ 1 00
Asparagus	50.00@75.00
Violets	1 00@ 1.25
Chrysanthemums	4.00@20.00

LOUISVILLE, Nov. 24.

Roses, Beauties, per dozen	.75@2.00
" Brides, Bridesmaids	2.00@ 4.00
" Meteors	2.00@ 4.00
" Kaiserins	2.00@ 4.00
" Perles	1.50@ 3.00
Carnations, fancy	1.50@ 2.00
" common	1.00
Violets	.50@ .75
Smilax, per dozen	1.25@ 2.00
Adiantum	.75@ 1.00
Asparagus, per string	.50
Chrysanthemums fancy per doz.	1 00@1 50
" com. " "	.77@1.00

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Brides, Bridesmaids, Meteors $4 to $6.00
Perles..... 3 to 5.00
Carnations..... 2 to 2.50
Carnations, fancy..... 4 to 6.00
Valley..... 4 to 5.00
Asparagus, per string, 50c
Smilax..... 10 to 12.50
Violets.....1.25 to 1.50
Common Ferns, per 1000, 1.50.....20c
Adiantum.....75c to 1.00

P. & D. AT COST.

Reinberg Bros.

51 Wabash Ave, CHICAGO.

Wholesale Growers of **CUT FLOWERS**

Under 600,000 Feet of Glass.

We are Headquarters for AMERICAN BEAUTIES and can fill all orders on short notice.

PRICE LIST.

		Per doz.
AM. BEAUTY, extra long stem		$4.00 to $5.00
"	24-in. stem	3.00 to 3.50
"	20 "	2.50
"	15 "	1.50 to 2.00
"	12 "	1.25
"	8 "	1.00
METEOR	per 100,	5.00 to 7.00
BRIDESMAID	"	5.00 to 7.00
BRIDE	"	5.00 to 7.00
KAISERIN	"	5.00 to 7.00
PERLE	"	3.00 to 5.00
CARNATIONS	"	1.50 to 2.00
" fancy	"	3.00

The above prices are for select stock. Inferior stock billed accordingly.
No charge for packing.

E. C. AMLING
Wholesale Cut Flowers

51 Wabash Avenue,

W. S. HEFFRON, Mgr. CHICAGO.

WHOLESALE GROWER OF ROSES. DEALER IN CUT FLOWERS.

J. A. BUDLONG,

37-39 Randolph Street. CHICAGO, ILL.

Wholesale Flower Markets

CHICAGO, Nov. 25.

Roses, Beauties, extra long, per doz.	4 00@ 5.00
" " 24 inch " "	3.0@ 3 50
" " 20 " " "	2.50
" " 15 " " "	1.50@2.00
" " shorter	1.00@1.25
" Brides	3 00@ 7.00
" Kaiserins	4.00@ 7.00
" Bridesmaids	4 00@ 7.00
" Perles	3.00@ 5.00
" Meteors	4.00@ 8 00
Carnations	1.50@ 2 50
" fancy	4 00@ 6.00
Lily of the valley	4.00@ 5.00
Adiantum	1.00
Common ferns	.20
Smilax	12.00
Asparagus	40.00@50.00
Violets	1 00@ 1.50
Chrysanthemums	8 00@20.00

VAUGHAN, McKELLAR & WINTERSON,

Wholesale Florists,

45-47-49 Wabash Avenue, - - . CHICAGO.

CUT FLOWERS AND ALL FLORISTS' SUPPLIES.

Orders booked now for XMAS..... HOLLY and BOUQUET GREEN.

See our Adv. of CYCLAMEN PLANTS elsewhere in this paper.

Mention this paper.

S. B. WINTER,

(Successor to WINTER & GLOVER,)

21 Randolph St., Chicago.

HIGH GRADE **CUT FLOWERS,**

PACKED RIGHT,

so they will reach you in just as good condition as they reach us.

WIRE DESIGNS: A Full Line. Write us for our Illustrated Catalogue.

...LOUISVILLE...

Florists' Supply and Exchange

Wholesale Florists and dealers in Florists' Supplies

Special facilities for shipping south. Unequalled returns for good stock. Open night and day.

520 W. Jefferson St., - LOUISVILLE, KY.

Do not forget to say "saw your ad. in the AMERICAN FLORIST" when corresponding with advertisers.

WIETOR BROS.

SUCCESSORS TO
ROGERS PARK FLORAL CO.

Wholesale Growers of **CUT FLOWERS**

51 WABASH AVENUE,

Headquarters For American Beauties. CHICAGO

KENNICOTT BROS. CO.

WHOLESALE CUT FLOWERS AND FLORISTS SUPPLIES.

WIRE WORK A SPECIALTY. 88 WABASH AVE. CHICAGO.

Bassett & Washburn

88 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

A. L. RANDALL

Wholesale Florist

Don't Forget that we are at 4 Washington St., Chicago.

Write for special quotations on large orders.

Lynch

WHOLESALE FLORIST.

19-21 E. RANDOLPH ST. CHICAGO

A. G. PRINCE & CO.
Wholesale Cut Flowers

AND FLORISTS' SUPPLIES.

Agents for the Hinsdale Rose Co Special attention paid to shipping orders.

88 & 90 Wabash Avenue,

Telephone Main 3208. CHICAGO.

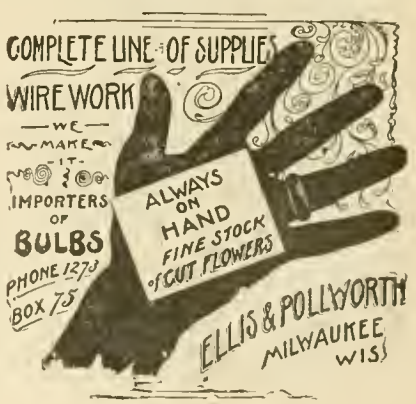
CINCINNATI CUT FLOWER CO.

SUCCESSORS TO
H. L. SUNDERBRUCH CO.

Wholesale Commission Florists

416 Walnut St., CINCINNATI, OHIO.

Consignments Solicited. Special Attention Given to Shipping Orders.



Samuel S. Pennock, Wholesale Florist,

1612-14-16-18 Ludlow Street, ...PHILADELPHIA, PA.

.....FINE VALLEY AWAYS ON HAND.

Can supply at short notice a choice assortment of ORCHIDS.
A select grade of VALLEY on hand the year round.
AMERICAN BEAUTIES our specialty.

GEO. A. SUTHERLAND. BOSTON... FLOWERS

Wholesale Depot for all Florists' Supplies.

Price Lists mailed. 67 Bromfield St., BOSTON, MASS.

CITY HALL CUT FLOWER MARKET, 9 Chapman Place, 15 Province Street, BOSTON, MASS.

WELCH BROS., PROPRIETORS.

Consignments from regular growers assigned separate space in our market. We guarantee payment for all flowers sold. Sales reported weekly. Payments monthly, or oftener if required.

THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

Wholesale Florists, JOBBERS IN
Always on Hand:
CARNATIONS,
BRIDESMAIDS,
BRIDES.
FLORISTS' SUPPLIES
FLORISTS' VASES.
Horticultural Auctioneers.
N. F. McCarthy & Co.
84 HAWLEY STREET, BOSTON.

GALVIN & CO.

Wholesale Florists

AND DEALERS IN ALL
FLORISTS' SUPPLIES,
4 Ordway Place, BOSTON, MASS.
Cut Flower Consignments Solicited. Best market.

N. Y. CUT FLOWER E'CHANGE

404-412 E. 34th St. Near Ferry.
Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

THE RECOGNIZED HEADQUARTERS N NEW YORK CITY FOR

Violets and Carnations.

GROWERS and BUYERS make a note of this. It will be to your advantage.
WM. H. GUNTHER,
....30 West 29th Street.

KELSEY'S SOUTHERN

GALAX LEAVES.

BRILLIANT GREEN and BRONZE.
Information of the introducer....
HARLAN P. KELSEY, 1150 Tremont Bldg., BOSTON, MASS.
Prop'r Highlands Nursery, in No. Carolina.

BRILLIANT GREEN AND BRONZE

GALAX LEAVES,

For Decorating and all Florists' Designs.
CHAS H. RICKSECKER, Linville, Mitchell Co., N. C.

The.....
American Florist
IS PAID FOR CIRCULATED AND READ.

Wholesale Flower Markets

PHILADELPHIA, Nov. 23.

Roses, Teas	2.00@ 4.00
" " extra	6.00@ 8.00
" Beauties, extra	25.00@35.00
" " firsts	12.50@16.00
" " seconds	8.00@10.00
Carnations	.75@ 1.50
Lily of the valley	3.00@ 4.00
Asparagus strings	35.00@50.00
" Sprengerii per bunch .50@1.00	
Smilax	12.00@15.00
Violets, double	.75@ 1.50
Chrysanthemums	6.00@16.00
Narcissus	4.00

BOSTON, Nov. 23.

Roses, Beauties	8.00@30.00
" Kaiserins, Meteors	4.00@10.00
" Brides, Bridesmaids	4.00@ 8.00
Carnations	1.00@ 2.50
Lily of the valley	3.00@ 4.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00
Chrysanthemums	4.00@20.00
Violets	.75@ 1.00
Roman hyacinths	.00

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.
WM. F. KASTING WHOLESALE COMMISSION FLORIST....
495 Washington St., Buffalo, N. Y.
Also Dealer in Florists' Supplies and Wire Designs

C. A. KUEHN,

Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

ELLISON & TESSON,

Wholesale Shipping
FLORISTS
3134 Olive Street, St. LOUIS, MO.
HOME GROWN STOCK.

EDWARD REID,

Wholesale Florist,
1526 RANSTEAD STREET,
Long Distance 'Phone. PHILADELPHIA.

Dumont & Co.

WHOLESALE FLORISTS.
Carnations a Specialty
1305 Filbert Street, PHILADELPHIA.
TELEPHONE 3922 D.

Geo. M. Moss,

WHOLESALE FLORIST,
30 South 17th Street, PHILADELPHIA, PA.
Long Distance 'Phone 1-41-26 D.
Consignments of Roses, Carnations, Violets solicited

WM. C. SMITH,

Wholesale Florist,
1604 LUDLOW STREET,
PHILADELPHIA.
Consignments Solicited. Special attention given to shipping orders

ST. LOUIS CUT FLOWER CO.

Wholesale Florists,
H. G. BERNING
1620 Olive St.
ST. LOUIS, MO.

...GEO. M. KELLOGG...

Largest Grower of... in the West. Cut Flowers
Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO.
LONG DISTANCE 'PHONE AT EITHER PLACE.

HAIL

For Insurance Against Damage by Hail Address
JOHN G. ESLER, - Sec'y F. H. A.,
SADDLE RIVER, N. J.

MacDONALD & McMANUS

Wholesale Commission Florists.

VIOLETS, ROSES, CARNATIONS. The finest ORCHIDS in the City Always on hand.

50 WEST 30TH STREET, NEW YORK CITY.
TELEPHONE 2778 38TH STREET.

Decker, Blauvelt Co.

• WHOLESALE FLORISTS •

42 West 28th Street, NEW YORK.

CONSIGNMENTS SOLICITED. Telephone 2387-18th St.

Shipping orders will receive prompt and careful attention.

Top Grade BEAUTIES, BRIDES, BRIDESMAIDS.

Extra Carnations.

JOHN I. RAYNOR, 49 West 28th Street, NEW YORK.

WALTER F. SHERIDAN,

WHOLESALE **FLORIST**

39 West 28th Street, NEW YORK.

Roses shipped to all points. Price List on application.

ASPARAGUS PLUMOSUS NANUS!

STRINGS 8 TO 10 FEET LONG, 50 CENTS

W. H. ELLIOTT, BRIGHTON, MASS.

FRANK MILLANG,
CUT FLOWERS,
WHOLESALE COMMISSION,
408 E. 34th Street,
Cut Flower Exchange. NEW YORK.
Telephone 1054-38.

JOHN YOUNG,
ROSES, CARNATIONS, VALLEY
and all other choice cut flower stock.
51 W. 28th Street, NEW YORK.
Price list on application.

ROSES VIOLETS LILIES
JULIUS LANG
53 WEST 30th STREET
NEW YORK
CARNATIONS Telephone 913-38.

Choice Carnations Choice Roses

Traendly & Schenck
NEW YORK CITY
38 W. 28th Street Cut Flower Exchange

FLOWERS ALL KINDS
PLENTY OF THEM AT
J. K. ALLEN'S 57 WEST 28th STREET, NEW YORK.
WHOLESALE MARKET.
TELEPHONE 382 38th St.

J. J. PERKINS. ESTABLISHED 1872. R. POTTER.
J. J. PERKINS & CO.,
Wholesale and Commission
FLORISTS...
52 West 29th St., NEW YORK.

Wholesale Flower Markets

NEW YORK, Nov. 23.

Roses, Beauties	5.00@20.00
" Bridesmaids, Brides	.50@ 3.00
" Morgans Perles	.50@ 2.00
" Niphetos, Cusins	.50@ 1.00
Carnations	.50@ 1.25
" fancy	2.00@ 3.00
Lily of the valley	2.00@ 5.00
Smilax	8.00@15.00
Asparagus	35.00@50.00
Cattleyas	20.00@25.00
Cypripediums	6.00
Mignonette	4.00@ 8.00
Adiantum	.50@ .75
Violets	.75@ 1.75
Chrysanthemums	2.00@ 5.00
" fancy	20.00@25.00

BUFFALO, Nov. 24

Roses, Beauties	10.00@35.00
" Brides, Bridesmaids	4.00@ 8.00
" Meteors	3.00@ 8.00
" Perles, Niphetos	3.00@ 5.00
" Kaiserins	4.00@ 8.00
Carnations, ordinary	.75@ 1.25
" fancies	1.25@ 3.00
Lily of the valley	4.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	.75@ 2.50
Chrysanthemmus	4.00@18.00

PURDY & BLAUVELT
Chrysanthemums, Roses, Violets, Smilax, Carnations.
WHOLESALE.
57 WEST 30TH ST., NEW YORK.
Daily market quotations to applicants.

Established 1891. Tel. 1615-38.
G. E. BRADSHAW,
Cut Flowers WHOLESALE COMMISSION
117 WEST 30TH STREET,
Consignments Solicited. NEW YORK.

MILLANG & CO.
WHOLESALE
Commission Florists
48 West 29th St., NEW YORK.
Capable, experienced. Consignments solicited.

Say: "Saw it in the FLORIST."

THOS. YOUNG, JR.
Wholesale Florist
43 West 28th Street, New York.

THE NEW YORK CUT FLOWER CO.
119 and 121 West 23d Street,
112 and 114 West 24th Street,
Telephone 733—18th. NEW YORK.
CONSIGNMENTS SOLICITED.
Special Attention Given to Shipping Orders.

M. A. HART,
Commission DEALER IN Cut Flowers,
44 WEST 29TH STREET,
NEW YORK CITY.
THE BEST MARKET IN NEW YORK.
'Phone 1307 38th St.

Ford Bros...
Wholesale Florists
111 West 30th Street, NEW YORK.
Consignments Solicited. Telephone, 260 38th St.

EDWARD C. HORAN,
34 W. 29TH STREET,
NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country.
Price List on application.

JAMES M. KING
Commission Dealer in
CUT FLOWERS.
Good Money for your Flowers.
Good Flowers for your Money.
49 WEST 29TH ST., NEW YORK.
TELEPHONE 1675 38th St.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

ALBANY, N. Y.—Geo. H. Price succeeds Price & Reed in the seed business.

R. H. SHUMWAY is still on crutches in consequence of his recent accident.

HENRY A. SALZER is in Idaho looking after his interests in the gold mines.

L. L. MAY & Co. have added another bag filling machine to their establishment.

READING, Pa.—The stock and fixtures of the Dwight Seed Co. at 843 Penn street, have been sold to Chas. J. Dwight.

COLUMBUS, O.—Chas. A. Sloan and F. A. Briegel have purchased the business of the Columbus Seed Co., and will continue under that name.

VISITED CHICAGO:—Mr. E. Schaettel passed through here on November 21 enroute to New York. He will sail for Paris on the French liner La Tourraine, December 1.

THE Salzer Seed Company, says the St. Paul *Pioneer Press*, has shipped grass seed to the Rice Lake sufferers, by order of Secretary Wilson on an appeal from Congressman Jenkins.

LONDON, OCT. 31.—The 1898 crop of canary seed in Turkey is said to be 70,000 bags and has been sold. Re-offerings of it at higher rates. Wisconsin green peas higher. Scarlet runner beans higher. Increased continental demand for red clover.

DENVER, COLO.—The Gallup Floral and Seed Company is the name under which P. C. Gallup has reorganized the Gallup Floral Co. Commodious quarters at 1460 Cleveland Place have been secured and the firm intends to handle seeds and florists' supplies as well as cut flowers and plants.

Retail Onion Seed Prices.

The retail prices of the leading varieties are now as follows:

	Per lb.
Red Wethersfield	$1.50
Extra Early Red Flat	1.60
Southport Yellow Globe	1.75
Yellow Globe Danvers	1.50
Yellow Flat Danvers	1.40
Yellow Strasburg	1.50
White Portugal	2.50
White Globe	2.75
Southport Red Globe	3.00
Early Red Globe	2.50
Prizetaker	1.75

Seedsmen's Competitors.

The *Conservative*, published at Nebraska City, Neb., prints the following in its issue of November 17:

There is a great and constantly growing area of land in Nebraska and other states cultivated by seedsmen. The crops of cucumber, onion, radish, beans, peas, muskmelon and other seeds matured each year on the commercial seed plantations in the American union aggregate a value of many millions of dollars. As a rule the seed growers of this country are honest, enterprising and highly respectable men. But each year they meet, as their competitors, congressmen and senators who, at government expense, gratuitously distribute among a small per cent of their constituents a few hundred tons of seeds. The packets contain about one cent's worth of seeds. The packages contain five packets. The voter who is tickled with five cents' worth of garden seeds and rejoices at being so well remembered by the statesman who sends them, is too simple to be allowed any part in a self-respecting government of the people, by the people, for the people.

Among many hoary humbugs in this form of government not one is so markedly a development of senile dementia. No other perpetrates more injustice and nourishes more favoritism.

Should Customers Pay for Catalogues?

A prominent eastern seed merchant writes suggesting the propriety of charging a nominal price for catalogues, the amount to be deducted from the first order of a given value. In these times of small profits the publication and free distribution of expensive catalogues becomes a serious item, and yet the custom has become so firmly established that any change must be approached with caution. Many European houses adopt the plan of sending catalogues free only to regular patrons, charging all other applicants a nominal price, and some follow the course proposed by our correspondent. We shall be pleased to hear from those interested with a view to the solution of this problem.

NO. TONAWANDA, N. Y.—C. J. Pult is about to organize a company to be known as The Florists' Supply Co., with office at his present address, corner of Division and Christiana streets, where he will handle glass, pipe, fittings and other material required by florists. They expect to commence business about December 1.

BURPEE'S
SEEDS
PHILADELPHIA.
Wholesale Price List for Florists and Market Gardeners.

TRY DREER'S GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER, Philadelphia, Pa.

FOR Colored Plates, Covers and Seed Packets ADDRESS
STEGHER LITHOGRAPHIC CO.,
Rochester, N. Y.

Auratum AND Speciosum Lily Bulbs.
Now ready for delivery.
CLUCAS & BODDINGTON CO.,
501 & 503 West 13th St., NEW YORK CITY.

TELEGRAPH CODE
OF THE
AM. SEED TRADE ASSOCIATION
$2.00,
In either stiff or flexible cover.
ADDRESS ORDERS TO
AMERICAN FLORIST CO.,
CHICAGO.

EVERY CATALOG OF
Seeds and plants should offer our Shears. Close rates. Free Electros.
Kelly's Pruning Shears,
Flower Gatherer and Grape Picker.
All in one simple tool, which, unlike ordinary Shears, holds firmly anything cut. Indispensible to Florists, Grape or Plant Growers.

Circulars Free. Pruning Shear Co., Fremont, O.

Several thousand florists supply the majority of their wants after a perusal of these pages.

LILY OF THE VALLEY PIPS.
The best size and finest stock imported. $10.00 per 1000. Special prices for large lots.
J. M. THORBURN & CO.
36 Cortlandt Street, New York.



Do you Ship Onion Sets?
Hercules Ventilated Barrels are RIGHT for Shipping any Product requiring ventilation.
We sell thousands to large shippers of produce and onion sets. The Hercules is the only barrel which can be shipped knock-down and does not require a cooper to set them up. One man can set up 75 to 100 Hercules barrels per day. Every shipper can be his own cooper and **save money.** We ship the barrels knock-down, with heads and hoops complete and ready to be set up. Fourth-class rates apply in less than car lots.
We furnish our set-up outfit for $2.00 and refund the $2.00 when you have purchased 500 barrels.
Write for sample barrel and prices.
HERCULES WOODENWARE CO.
288 W. 20th Place, CHICAGO.

San Francisco.

AN OVERSTOCK OF CHRYSANTHEMUMS.—THE STATE OF THE MARKET.—SHOW OF THE SANTA CRUZ FLORAL SOCIETY.—JOTTINGS IN THE TRADE.

Trade in this city has been rather poor for the past few weeks. As usual at this time of the year we are overstocked with chrysanthemums and when they hold sway it is rather difficult to dispose of other stock. The weather has not been at all favorable to the chrysanthemum this season, that is, outdoor-grown stock. Mrs. Henry Robinson as a rule has done poorly but Major Bonnaffon is as fine as ever. The same may be said of Dailledouze. The wholesale growers have experienced a very fine shipping trade, sending out many thousand chrysanthemums, some going as far as Butte. Prices range from about $3 to $6 per 100.

Some magnificent Flora Hill, Mayor Pingree and Minnie Cook carnations can be had. These three varieties bring from 75 cents to $1 per dozen at retail. Roses are going slowly. Beauties are of good quality but prices are ruling rather low. The heaviest demand is for Brides and Bridesmaids. Violets are very poor and do not ship well, for which the growers blame the very dry season. The plants seem to be invariably covered with red spider. There seems to be a very healthy demand for young palms, particularly kentias, and the supply is very limited.

The Santa Cruz Floral Society has just closed its annual chrysanthemum show and while the attendance was not what it should have been, yet it proved very satisfactory. Thos. Thompson made the largest exhibit, composed chiefly of well grown palms and ferns. He also showed some of his famous carnations, which were all that could be desired, and seedling dahlias, many of which will prove decided acquisitions. Mr. Leedhorn, well known among us as an authority on bulbs, particularly narcissi, made a very interesting display of tuberous begonias and dahlias, a new red dahlia being particularly fine. Mr. Leedhorn's display was not for competition and neither was that of Mr. Thompson. Of the amateurs Dr. Parker made a fine show of decorative plants and cut blooms. Mrs. Rennie captured nearly all the prizes for cut blooms.

Mrs. Lena McCoy, of Tacoma, Washington, is in town visiting the growers and looking at the winter prospects for cut flowers.

Chas. C. Navlet, of San Jose, who has a branch store in Sacramento, is about to open another in Stockton.

The J. B. Kidd Company has been incorporated and is now doing business at 312 Market street.

San Francisco is not to have a fall show this season, which is much to be regretted.

Sidney Clack is sending in some fine lily of the valley which brings readily 75 cents to $1 per dozen. METEOR.

Bridgeton, N. J.

Mr. and Mrs. S. Edwards celebrated the golden anniversary of their wedding, at their home, 478 Irving avenue, on November 16. Mr. Edwards will be 88 years of age on December 24. He did a thriving business as a florist in Bridgeton for many years, and his son, D. B. Edwards, is a well known florist of Atlantic City.

Wm. Henderson, who is an enthusiastic hybridizer and raiser of chrysanthemums, has a beautiful exhibition open to the public in his greenhouses at Cedarville.

WELL BOUGHT IS HALF SOLD.

Bouquet Green Holly

Evergreen Wreathing, Holly Wreaths, Mistletoe, Etc.

The right kind at the right price, and last, but not least, at the right time.

We have an unbroken record as HEADQUARTERS. Send us your list of wants for BOTTOM FIGURES.

W. W. BARNARD & CO.,

161 and 163 East Kinzie Street, CHICAGO.

HOLLY=VAUGHAN'S XXX BRAND

AND

Bouquet Green.

THE Holly situation changes nearly every year. For the last three years they've begun to bring it into the country towns like potatoes. Every man has taken to cutting his own—or some other man's—holly, and packs it well, badly or indifferently, or any old way. The result is very bad for the retail florist. When we first started the Holly business, in 1880, our buyer contracted for a man's grove and cut the best and sorted it himself, and established Vaughan's XXX Stock as a brand worth having. It is nearly 20 years old—almost of age—and has held its own well. But we wondered why so many culls came our way (to sell to peddlers at half rates) and this fall our Mr. Vaughan located this town market Holly system and cut it off from our man. We are buying and packing our Holly in the woods ourselves and it costs more money, but it is worth to the retailer a lot more than it costs. **A good case of Holly is easily worth Ten Dollars, while cull stock can't be given away.**

We can suggest delivery dates which will keep you in good supply on the best days for selling Holly. Our prices are not advanced. How much can you use?

Vaughan's Seed Store, 84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Wisconsin is the HOME of BOUQUET GREEN. Please remember that we are in Wisconsin.

Bouquet Green! In any quantity. Delaware Holly! Extra select and well packed.

GREEN WREATHING, MISTLETOE,

Write for prices stating quantity wanted and we will make the price right.

FLORISTS' SUPPLIES We have them. Send for our new CATALOGUE.

FRESH CUT FLOWERS always on hand.

Holton & Hunkel Co., Milwaukee, Wis.

BOUQUET GREEN BY THE TON, CARLOAD, OR SINGLE CRATE.

— We are Headquarters. —

Also select DELAWARE HOLLY. Perfect stock in PALMS and FERNS.

We guarantee safe arrival by Express. Get our prices before buying.

ELLIS & POLLWORTH, Box 75, Milwaukee, Wis.

ESTABLISHED 1866 EMIL STEFFENS SUCC.TO N. STEFFENS. AND STEFFENS BROS.

MANUFACTURER OF FLORISTS' WIRE DESIGNS & SUPPLIES

335 EAST 21ST ST. NEW YORK CITY.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

D. S. LAKE, Shenandoah, Ia., is building a cellar 56x110 for the storage of nursery stock.

WIRT BROS., Alpha, Ill., report a good season and are remodeling and enlarging their nursery office.

NOBLESVILLE, IND.—Charles Simmons, of Sheridan, has entered the employ of J. Phelps & Son.

WOOD & FORTNEY, Schoolcraft, Mich., sold at auction their personal property and nursery stock on November 17.

LOS ANGELES COUNTY, California, is sending George Compere to Hawaii in search of a parasite which will destroy purple scale in nurseries and orchards.

THE SOUTHERN NURSERY CO., of Winchester, Tenn., has purchased the Price Luner farm of 265 acres at Adairsville, Ga., which they will set to peaches, apples, quinces and plums.

THE Lily Orchard Co., Bloomington, Ill., has increased its capital stock from $11,000 to $150,000 and proposes to greatly increase its orchards. H. S. Watson is president and manager.

ROCHESTER, N. Y.—Joseph H. Dodge, of the nursery firm of Geo. Moulson & Co., was married on November 15, to Miss Elizabeth McGuire. The house was beautifully decorated with plants and flowers.

DANSVILLE, N. Y., nurserymen, of whom there are twenty-seven, have enjoyed a splendid fall trade and so heavy have their shipments been that they have experienced difficulty in securing cars to move the stock.

Pittsburg.

THE GREAT CHRYSANTHEMUM SHOW AT SCHENLEY PARK.—MANY NEW VARIETIES.—HIGHLAND PARK ALSO MAKES AN EXHIBIT.—SPLENDID NEW MARKET HOUSE SHELTERS NINE FLORISTS.

Notwithstanding that Pittsburg has no competitive chrysanthemum show this year, it has a display that for extent, number of varieties shown and general excellence, has not been excelled by any of the numerous shows throughout this country. At the Phipps conservatories in Schenley Park, Wm. Falconer superintendent, the exhibit is one of over 10,000 plants, more than 300 varieties, very many of them with from three to six flowers to a plant, and arranged so that the beauty of each one can be fully appreciated, the space occupied being large enough to admit of display without crowding. Superintendent Falconer had the economic plant houses cleared for this exhibition, retaining only the bank of exotics, ferns, etc., with the waterfall and pool facing the entrance, which completely prevents seeing any of the chrysanthemums until you pass beyond it, where the center house with its two wings are one mass of beautiful colors.

Highland Park, Geo. W. Burke, superintendent, has also a chrysanthemum show, but owing to the very limited space in the small greenhouses connected with this park, it is impossible to have anything like the extensive exhibit at Schenley Park, although for its size it is equally meritorious. This year Superintendent Burke has grown only the older varieties, such as Mrs. Henry Robinson, Ivory, Mutual Friend, Queen, John N. May, Major Bonnaffon, Eugene Dailledouze, Mrs. Geo. H. Morgan, Viviand-Morel, Maud Dean, Mrs. Irving Clarke, Oakland, E. M. Bigelow, and F. H. Spaulding. W. B. Ague has charge of this branch of park work and has succeeded with very limited accessories in giving a first class exhibit. Plans are under way for better and up-to-date houses for Highland Park, and then Pittsburg will be able to give two large flower shows at the same time.

On Saturday, November 19, the opening of the Liberty Market in the East End took place. It is one of the finest market buildings in the world, and nine florists have taken stands in it, in which the refrigerating is done by pipes through which chemically cooled brine is forced. They are as follows: A. M. Elliott, formerly of Elliott & Maginess; Chas. T. Siebert, of Stanton avenue; Fred M. Welfer, Greenfield, avenue; H. B. Zieger, Aspinwall; W. H. Senior, West End; Baywood Nurseries, B. Frosch, manager; Miss Anna Klopfer, Allegheny; Jos. T. A. Varnhagen, South Euclid avenue, and Harry Baxter, Aspinwall.

All of them expressed satisfaction with the opening day. This is the first attempt at starting a market so far from the regular one in the main part of the city, but the population in the East End is fully great enough to warrant it.

W. D. Huscroft, of Wheeling, W. Va., and Geo. L. Huscroft, of Steubenville, Ohio, were in the city the early part of the week. REGIA.

DETROIT, MICH.—Moses Larges, well known in the trade here, died November 5. The business is now in the hands of his sons.

SOUTH BEND, IND.—Tippecanoe Place, the home of Hon. and Mrs. Clem Studebaker is the scene of an annual chrysanthemum show given by the ladies of Milburn chapel. The blooms supplied for the function November 16 were very fine and reflected much credit upon Peter Reese, the grower.

HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
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The Reading Nursery, READING, MASS.
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This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Annual subscription to cover cost of postage 75 cents.
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AZALEA INDICA,
12 to 14 inches diameter. Fine, shapely, well-budded plants of the best forcing varieties. Prices too low for publication.
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Hydrangeas ...OTAKSA RED BRANCHED and THOS. HOGG
Strong, field grown plants.
With 3 to 5 crowns . . . $1.00 per 10; $8.00 per 100
" 1 to 3 " 75 " 5.00 "
ASPARAGUS SPRENGERI, $6.00 per 100!
Fine, thrifty stuff from deep 2½-inch pots, 6 to 10 inches tall and with 5 to 10 stocks.
FIELD-GROWN HARDY ROSES
Clematis, Ornamental Shrubs and Trees, Pæonies, Herbaceous Plants, Small Fruits, Fruit Trees.
Send for wholesale price list.
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One Million
Flowering Shrubs; full assortment; all sizes.
Half Million...
Deciduous Trees for street, lawn and avenue planting.
200,000 Vines, Ivies, Clematis, Actinedia and other sorts. Correspondence solicited.
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Amoor Privet and Hardy Lemon—best Hedge Plants.
5,000 Gardenia Florida—pot grown.
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500 Ficus Elastica.
10,000 Latania—4-inch pots.
1,000 Phœnix Reclinata—6-inch pots.
100,000 Cannas—leading sorts, $15.00 per 1000.
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5,000 Rare Coniferæ.
ROSES—field-grown, on own roots and budded low.
An immense stock of Ornamental and Fruit Trees.
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FRUITLAND NURSERIES, Augusta, Ga.
Mention the American Florist.

Viburnum Tomentosum
A RARE AND BEAUTIFUL SHRUB.
HERBACEOUS PERENNIALS ...A... SPECIALTY
Price list and descriptive catalogue on application.
REA BROTHERS, Norwood, Mass.

VIBURNUM PLICATUM...
Fine large bushes 5 to 7 ft. high, at $1.00 each, and all other sizes. Also a full assortment of hardy flowering shrubs.
SUGAR MAPLES...
10 to 12 ft., and other shade trees. Send for list.
SAMUEL C. MOON, Morrisville, Bucks Co., Pa.
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Wholesale Growers, TREES & PLANTS in Full Assortment. TRADE CATALOGUE FREE.

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CUT FLOWERS.

For week beginning Monday, Nov. 28th.

ROSES.

Beauties, long, per doz.,	$3.00 to	$4.00
" medium "	2.00 to	3.00
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	Per 100.	
Brides, Maids, Meteor,	$3.00 to	$5.00
Kaiserin, La France....	3.00 to	5.00
Perle, other teas.....	2.00 to	4.00
Roses, our selection.....	3.00	

CARNATIONS.

Fancy stock.....	1.50 to	2.00
Ordinary "	.75 to	1.00

CHRYSANTHEMUMS.

Fancy varieties.....	15.00 to	25.00
Medium stock.....	8.00 to	12.00
Ordinary stock.....	4.00 to	6.00

MISCELLANEOUS STOCK.

Valley.....	4.00 to	5.00
Violets.....	.75 to	1.50
Orchids, Cattleyas.....	doz.,	6.00
" Cypripediums.....	"	2.00
" assorted box.....		10.00

Above prices subject to change without notice.

Give us your order early.

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Wild Smilax, parlor brand.....		$3.75
" " medium case.....		5.50
" " large "		8.00
Asparagus Plumosus.....	doz.,	5.00
" " string,		.50
Smilax.....per doz,	$1.00 to	1.50
Adiantum Ferns...per 100,	75c to	1.00
Common " ... "		.15
" " ... " 1000,		1.50
Galax Leaves..... " 1000,		1.00
Farleyense Fronds.....	doz.,	1.00

We always have good stock of above on hand and can fill orders promptly.

CYCLAMEN PLANTS.

Plants from our stock were awarded First Premium at Chicago Show against five competitors. Positively none better.

Now ready for shipping direct from greenhouses.

600, 3-in. pots, at.....	$8.00	per 100
2000, 4 "	12.00	"
1000, 5 "	25.00	"
500, 6 "	50.00	"

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American Florist Co.,
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OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

H. F. A. LANGE, of Worcester, Mass., has returned from a trip into the wilds of Maine, bringing with him two deer and a caribou.

R. WITTERSTAETTER, president of the Cincinnati Florists' Club, has returned from a very successful hunting trip through Kentucky.

PROVIDENCE, R. I.—A bowling match between Peter Burns, A. M. Rennie, Alex. Miller and John Macrae has ended after much hard labor on the part of the participants. Five strings being rolled, Burns could not score a 100; John Macrae made 135. Rennie was second best and Miller third.

NEWPORT, R. I.—Bowling is too commonplace a pastime for the Newport gardeners. Nothing less than a cake walk is any attraction to them. One of these grotesque affairs closed the chrysanthemum show last week. J. J. Butler was chief showman and the couples in his retinue were Messrs. Laurie and Radford, Maher and Taylor, Westley and Nicol and Watterson and Johnson. The three first named couples won the cakes with unprecedented evolutions. The cakes turned out to be made of wood and metal and required a force of mechanics to cut them up.

Pittsburgers to Bowl.

During the winter the members of the Pittsburg Florists' Club will meet each Thursday evening for bowling practice, and a team will doubtless be organized to contend for the Evans trophy at Detroit next August.

At Richmond, Ind.

Among recent visitors to this city were two members of the Chicago Florists' Bowling Club, and they were invited to show their skill on a local alley, with the following result:

Name.	1st.	2d.	3d.	4th.	Ave.
J. S. Wilson	113	136	141	163	138
E. G. Hill	76	98	88	123	96
J. A. Evans	60	98	96	103	89
M. Barker	78	57	61	87	69

Bowlers at Indianapolis.

It is said that the most pleasurable part of the Indianapolis show programme was the entertainment given visiting florists by the local club, the principal feature of which was bowling. J. Hanson, Theo. Bock, of Hamilton, Ohio, and Albert Sunderbruch, of Cincinnati, won the leading prizes, but enough trophies had been provided that no one went empty handed.

H. J.

Twin Cities Will Bowl.

A. S. Swanson, of St. Paul, is trying to organize a bowling club in the twin cities. Eight of the fourteen members present at the last meeting of the Florists' Club announced their desire to join and a total membership of twenty or twenty-five is anticipated. Buffalo, Philadelphia and St. Louis are hereby warned to look out for their laurels at Detroit next August.

FELIX.

New York.

The bowling meeting of the New York Club on Monday evening was well attended and the new alleys at 1011 Sixth avenue were very satisfactory. P. O'Mara made the best score, 217; others made from 150 to 170. A challenge was issued to the Gardeners' Society for a match game on the afternoon of December 12. Lawrence Haffner offers a prize for the best score made in one game on that afternoon. A rousing time is promised.

Chicago Bowling Score.

At the meeting November 18 Capt. J. S. Wilson made the high average, 157. There were ten players in the game. Here is the score:

Name.	1st	2d	3d	Av
J. S. Wilson	162	170	140	157
G. L. Grant	188	145	123	152
E. F. Winterson	114	149	177	147
Walter Kreitling	166	149	125	147
George Stollery	114	142	163	140
John Degnan	127	132	147	135
C. W. McKellar	110	166	111	129
Alex. Henderson	124	139	104	122
A. Lange	104	125		115
Jas. Hartshorne	113	100		107

Convention City Bowlers.

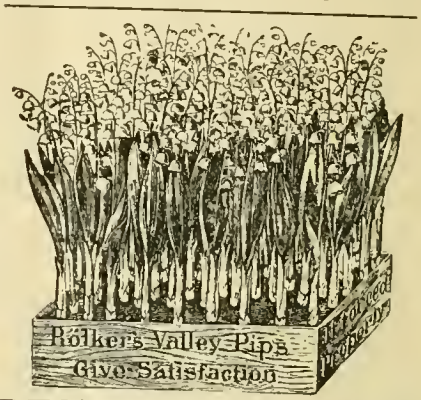
At their second evening's practice the Detroit bowlers manifested considerable improvement. Here are the figures:

Name.	1st.	2nd.	3d.	4th.	Av.
Holznagle	154	156	143	121	144
Paulke	115	121	128	142	127
Flowerday	154	148	122	81	126
Beard	88	127	151		122
Rackham	95	104	115	131	111
Watson	85	122	112	126	111
Dilger	111	70	106	140	107
Sullivan	82	115	118	96	103
Lohrman	109	98	90	86	96
Pickworth	78	98	91	113	95
Coryell		130	53	100	71

R. F.

Flatbush Bowling.

There was a great time on the alleys Thursday evening, November 17. Six games are to decide whether the "Clams" or the "Lobsters" are to pay for the Thanksgiving supper and the "Clams" had already two games to their credit from the previous meeting. Mr. Riley is captain of the "Clams" and his retinue consists of Louis Schmutz, Eugene and Paul Dailledonze, Papa and Alfred Zeller. The "Lobsters" who, under the leadership of Tom Brennan, are Messrs. Raynor, Prosser, Mellis, Werner and Henry Dailledouze, lined up with desperation in their eyes and managed to capture the first game but in the second their opponents proved too much for them and the best they can do now is to tie the series by winning the two remaining games, a feat which they hardly dare hope for. D. D. L. Farson, J. H. Troy and W. J. Stewart were visitors and Mr. Troy won the "pot" in the first game with a score of 172. In the second Alfred Zeller won and in the third he and Tom Brennan were tied with a score of 181 each. They rolled off and the pot went into Brennan's pocket. Mr. Farson gave an interesting demonstration of several styles of Philadelphia rolling. Dan is always interesting in whatever line he performs.

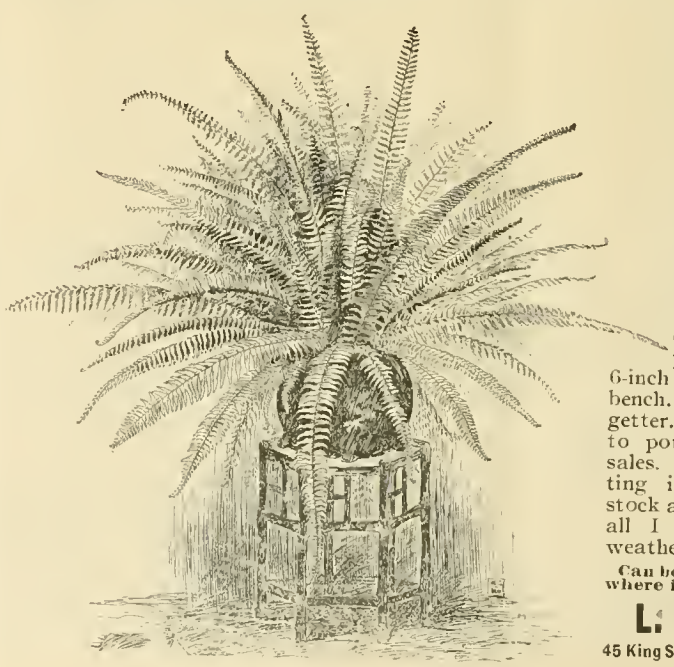


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HYDRANGEA OTAKSA MONSTROSA.

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" Forsteriana	1.00	6.50	15.00

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2000 picked bulbs, reduced from $18.00 to $15.00 for prompt clearance; 3000 ordinary size forcing, regular $15.00 grade, will let these go at $10.00; about 6000 No. 2 bulbs, good for OUTSIDE PLANTING, @ $4.00 per 1000. Be quick if you want these. Won't last long at such figures.

Single Daffs. Cheap!

400 Princeps, @ . .	$1.00 per 100
400 Trumpet Major, @	1.00 "
250 Ornatus . . .	.75 "
500 Poeticus NN @ . .	.40 "

These a fine picked bulbs specially selected for forcing purposes and are in excellent condition. A good bargain.

	Per 100
Hyacinths, No. 2, named .	$4.50
" miniature, rose & white	1.25
" grape, white . . .	.80
" " blue	.40
Tulips, double mixed . .	.75; $5.00 per 1000

Some Other Bulbs Cheap to Clear.

This has been the best bulb season in 15 years with me. Never saw so few bulbs left over at this season before. Will esteem your orders.

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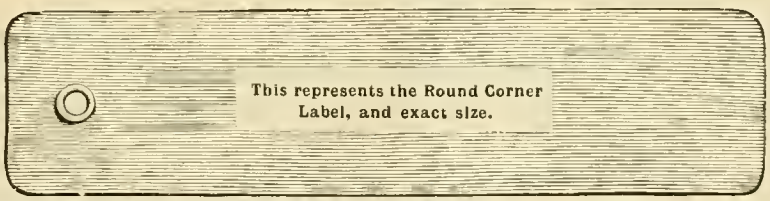
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	100,000,	50,000,	25,000 lots,
SQUARE CORNER,	50 cents;	56 cents;	62 cents per 1000.
ROUND CORNER,	54 cents;	60 cents;	66 cents per 1000.
Printing Name and full matter on one side,	8 cents;	10 cents;	12 cents per 1000.

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SAMPLES AND ESTIMATES ON APPLICATION.

Azalea Indica, full of bud 10 to 12-inch, $3 50 per doz.
" " " 14 to 16-inch, 6 00 "
Cinerarias.....2½-inch, $2.00, 3-inch, $3.00 per 100
New Chrysanthemums, Frank Hardy and Merry Christmas, large clumps..... $4.00 per doz.
Rooted cuttings of same $3.00 per 100.
Cyclamen Giganteum, 4-inch.....$10.00 per 100.

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2½ to 4 feet " $1.25; " $9.00.

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ACALYPHA SANDERI

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AND FROM EVERY POPULAR FLORIST IN AMERICA.



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"London Market" Brand.
The finest strain in existence for early forcing. Per 1000, $14.50.

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Equal to "London Market" brand for later forcing. Per 1000, $12.

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A select grade of "Berlin" pips. Not to be compared with Hamburg grown "second-class" stock offered at low prices. Per 1000, $10.00

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STOCK PLANTS, of Fitzwygram, earliest white, Montmort, earliest pink, Yellow Monarch, earliest yellow, Marion Henderson, Golden Trophy, Elvena, Midge, Frank Hardy, Phœbus, Australian Gold, Mrs. H. Wecks, Longfellow, F. Pullman, Iora, Yanoma, Cheabeague, Maud Adams, Autumn Glory, Spottswood, R. G. Carey, W. H. Chadwick, Nyanza, Bigelow, Miss G. Vanderbilt, Chas. Molin, A. F. Carey, John Shrimpton, Liberty, Golden Harvest, Quito, Georgienne Bramhall, J. E. Lager, Bonnaffon, Modesto, Sunderbruch, Glory of Pacific, Ivory Pink Ivory, Pale Perrin, Silver Cloud, Mrs. Egan.

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Wm. H. Chadwick, Mrs. C. H. Peirce, Snow Queen, Madeline Pratt, Yellow Fellow, Autumn Glory, Mrs. Arthur J. Caton, Yellow Mrs. Jerome Jones and Thornden, at 50c. each.

NEWER SORTS Doz., $2; 100, $15.
Frank Hardy, Defender, Mrs. C. H. Weeks, Western King, Geo. S. Kalb, Midge

STANDARD KINDS, Per Dozen, $1.50; Per 100, $10.00.

Liberty, Mayflower, Eugene Dailledouze, Philadelphia, Golden Wedding, Evangeline, E. M. Bigelow, Viviand-Morel, Gretchen Buettner, Mrs. Martin A. Ryerson, Mrs. J. G. Whilldin, Marion Henderson, Yanoma, The Times, Jeannie Falconer, Marion Cleveland, Mrs. Jerome Jones, Mrs. Perrin, Ivory, Golden Trophy, Major Bonnaffon, Modesto, Mrs. H. Robinson, L'Amethyst, Joanna, Glory of the Pacific, Mme. F. Bergmann, Miss Agnes L. Dalskov, Mrs. S. T. Murdock, Lady Fitzwygram, Mrs. W. H. Raud, Chas. Davis, Niveus, Geo. W. Childs, The Queen

VAUGHAN'S SEED STORE,

CHICAGO. GREENHOUSES, WESTERN SPRINGS, ILL. NEW YORK.

Field-Grown CARNATIONS

Only a few varieties still in stock.

White Cloud, white.
John Young, white.
Storm Queen, white.
Jubilee, scarlet.
Gold Nugget, yellow.
Mrs. C. H. Duhme, pink
Albertini, pink.
Meteor, crimson.

FRED. DORNER & SONS CO.

LA FAYETTE, IND.

Yellow Ivory.

Identical with its parent, Ivory, except in color, which is a pure bright yellow. This is sure to become as popular among yellows as Ivory is with whites.

Stock plants from bench at 50 cts. each, or 3 for $1.00.

☞Cash from unknown people.

SMITH & SON,

Wade Park Ave. & Crawford Road. CLEVELAND, O.

CHRYSANTHEMUMS. STOCK PLANTS.

Rose Owen, Golden Trophy, Lady Fitzwygram, Yellow Monarch, Riverside, Glory of Pacific, J. H. Woodford, Major Bonnaffon, Mrs. W. P. Raynor, G. F. Atkinson, Maud Dean, Mrs. R. D. Douglas, Western King, Evangeline, Mrs. H. Wright, Dorothy Devens, Mrs. R. Crawford at $1.25 per doz.

Also Mrs. H. Weeks, Miss Gladys Vanderbilt, Maud Adams and J. M. Gifford, at $2.00 per dozen.

Also Varieties Introduced in 1898.

Mrs. C. H. Peirce, Yellow Fellow, Pennsylvania, Frank Hardy, Boundless Snow, Spottswood, Minnewaska, Merry Christmas, Snow Queen, Blackhawk, Australian Gold, Solar Queen, Autumn Glory, Chempwee, T. H. Spaulding, Madeline Pratt at 30c. each, $3.00 per doz.

THE COTTAGE GARDENS, Queens, N. Y.

PLANTS FOR DECORATORS.

The season for plant decorations is at hand and any of these will be a useful addition to stock, being bright, fine colored elegant specimens. Packed in pots, by freight, if desired.

	per dozen
ARECA LUTESCENS, 8-in. pots, 4 to 5 ft.	$18.00 to $24.00
ARECA LUTESCENS, 6-in. pots, 3 to 4 ft.	12.00
OREODOXIA REGIA, light graceful, 5 to 6 feet	18.00
NEPHROLEPIS BOSTONIENSIS, 8-in. pans, 3 to 4 ft. over	18.00
ADIANTUM TENERUM, 8-in. pans	9.00

CASH WITH ORDER.

JOHN H. LEY,

Good Hope, - - Washington, D. C.

STOCK PLANTS.....

WM. H. CHADWICK

Chrysanthemum.

Unquestionably the grandest of all whites, $3.00 per dozen.

GROVE P. RAWSON, Elmira, N. Y.

LONG'S Floral Calendars.

Samples for 1899 Are Now Ready

Original, Flowery, Artistic, Handsome and Low Priced.

Something customers will appreciate.

THREE SAMPLES, 12c in stamps. Eight for 20c.

DAN'L B. LONG, Publisher, BUFFALO, N. Y.

Carnations! FIELD-GROWN.

All sold except 500 Wm. Scott, 300 Emily Pierson, 500 Lizzie McGowan, 100 Morello and 100 Goldfinch

If there is anything here you want, write me and get some low prices on this lot. Address

Chas. Chadwick, Lock Box 11, Grand Rapids, Mich.

Mention the American Florist.

STOCK PLANTS of Earliest of all 'MUMS that make a good flower.

Cut Sept. 20th. Last year Sept. 17th.

LADY FITZWYGRAM, $1.00 per doz.

Cash with order, please.

FRED. BURKI, Bellevue, Pa.

PALMS. FERNS. FICUS.

Medal awarded on Palms World's Fair, 1893.

(Established 1884)

100,000 Strong LATANIA SEEDLINGS, and 25,000 FERNS for dishes, at $3.00 per 100; $25.00 per 1000.

TERMS CASH.

ALBERT FUCHS,

2059-73 N. Halsted St., CHICAGO, ILL.

Would you like some early ROOTED CUTTINGS of.....

Perles, Wootton or Kaiserins

for next spring and summer bloom? Will have them ready for shipment about Dec. 15th. Write for prices to

GEO. A. KUHL, - Pekin, Ill.

LONG DISTANCE 'PHONE, 14.

Adiantum Farleyense.

FINE PLANTS

In 5-inch pots at $9.00 per dozen.

EDWIN LONSDALE, Wyndmoor,

Money order office, Sta. H, Philadelphia. Chestnut Hill, PHILADELPHIA.

AZALEA INDICA.



Superb stock: to clear out a later consignment, we offer:

8-10-inch	per dozen, $3.50;	per 100,	$25.00
10-12-inch	" 4.25;	"	32.00
12-14 "	" 5.50;	"	42.00
14-16 "	" 6.50;	"	52.00

SEND ORDERS QUICK.

Lil. Auratum, Rubrum, Album ready.

Special offer Lil. Longiflorum, 7-9-in., per 100, $3 net.

H. H. BERGER & CO., 47 Barclay Street, New York.

(Established 1878.)

Asparagus Sprengeri

50,000 Plants in 2½-inch pots, $5.00 per 100, express; 24 for $1.50 by mail. Specimens for 8-in. pots, $6.00 per 12.

A. BLANC & CO., Philadelphia

Do the American Florist a small favor. Mention the paper when writing advertisers.

Cleveland.

A WEEK OF POOR BUSINESS.—A CRAPE CHASER MEETS WITH A MERITED REBUKE AT THE HANDS OF A FLORIST.

There is a universal complaint regarding business during the past week, nearly every one uniting in the opinion that for all around dullness it has been the worst for some time. It may be that people are saving their dollars in order to spend them with us at Thanksgiving. There is, of course, an ample supply of pretty much everything and a surplus of chrysanthemums. The rather pleasant, warm and bright weather we are having does not tend to greatly improve the situation.

It grieves me greatly to have to record the lamentable calamity that lately befell one of our most prominent and persistent crape chasers. In the pursuit of his occupation he called at a house the deceased occupant of which had been a relative by marriage of a local florist and it happened that the said local florist was in charge of matters in general, and also that this said person was unknown to the genial crape chaser. He got out his book and proceeded to expatiate after the manner of his kind, the auditor listening with eager attention but preserving his incognito. The gentleman enlarged upon the merits of his wares, the cheapness thereof and the fine attributes of the deceased "whom he (perhaps) knew well." The unknown mildly responded that there was a florist in the neighborhood who had always been satisfactory in other matters; why not go to him? To which was returned the statement that "He was only in a small way, good enough to buy bedding stuff of but on an occasion like this"—and so on. "Allow me to introduce myself. I am the florist you are discussing so eloquently," was the rejoinder, and then followed the most beautiful calling down and the discomfited departure of the "chaser." All of which is very sad, don't you know. A.

NYACK, N. Y.—A deer which had escaped from the Tuxedo Park preserve, in trying to return to the park by leaping over the high wire fence, plunged down on the greenhouses of George Stewart, which are located near the entrance to the park and broke in most of the glass on that side of the house.

Orchids! 

CATTLEYA MENDELII arrived in superb condition. Write for prices at once. Only a limited quantity left.

LAGER & HURRELL, SUMMIT, N. J.

SPIRAEAS Japonica	Per 100,	$3 50
Compacta	"	6 00
Astilboides Floribunda	"	6.00
Palmata, b'utiful pink	"	10.00

Extra strong clumps.

F. L. ATKINS, Orange, N. J.

ORCHID BLOOMS! Cash Prices.

Lælia anceps and L. autumnalis, $2 00 per doz., $12 00 per 100. Fresh, just opening, including preoayment by post and packed properly to arrive in good condition.

MEXICAN SUMMER BULBS.

We still have a surplus of Bessera elegans, Amaryllis Formosissima, Milla biflora, Calochortus and Tigridias. Send for special prices.

J. A. McDOWELL, City of Mexico.

CARNATIONS H. WEBER & SONS, Oakland, - Md.

REDUCED PRICES FOR

Hyacinths, Tulips,

AND CHINESE SACRED LILIES.

Closing out our Importations at the Following Low Prices:

	Per 100	Per 1000
HYACINTHS, double, colors separate	$3.00	$27.00
" single, " "	3.00	27.00
TULIPS, fine mixed, double	.50	4.50
" " single	.50	4.50
CHINESE SACRED LILIES (in baskets of 30 bulbs)	4.50	40.00
HYACINTHS, single white Romans, 12 to 15	2.00	14.00

ROBERT BUIST COMPANY, Philadelphia, Pa.

LOWEST PRICES ON BULBS, BUT CASH!

Send in your wants for quotation, no price list issued.

J. L. SCHILLER, 404 East 34th St., NEW YORK.

Caladium Esculentum

1st size 9-12 in. circ. $5 00 per 100; $32 00 per 1,000.

2nd size 7-9 in. circ. $3 75 per 100; $18.00 per 1,000.

3d size 5-7 in. circ $2.50 per 100; $7.25 per 1,000.

8,000 Fancy Leaved Caladiums in Variety.

Names and prices upon application.

5,000 Crinum Americanum, large blooming size, $8.00 per 1000.

B. H. RITTER, Port Royal, S. C.

SPECIALTIES IN BEST VARIETIES

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N.Y.

Mention The American Florist.

MR. SHAW,

at 114 Wabash Avenue, CHICAGO,

has some fine plants to spare for the florists at wholesale. Call and see them.

BEGONIAS AND **GLOXINIAS** In any quantity.

SANDER, Bruges, Belgium.

AGENT: A. DIMMOCK,

60 Vesey Street, - - - NEW YORK.

Rose Hill Nurseries,

OUR SPECIALTY: Headquarters

Areca Lutescens, Kentia Belmoreana, Cocos Weddeliana, Kentia Forsteriana, Livistona rotundifolia, Phœnix rupicola, Phœnix reclinata, Araucaria excelsa, Pandanus, Ferns. The largest stock of Kentias in America.

SIEBRECHT & SON, New Rochelle, N. Y.

AMERICAN BEAUTIES

For Forcing.

DORMANT BUDS.

These plants were budded on Manetti stocks last June. If potted in six or seven inch pots now and the bud forced out they will make splendid plants in a few months.

We forced some ourselves last winter and got a growth of over six feet.

PRICE, $10.00 PER 100.

W. S. LITTLE & CO.,

Rochester, N. Y.

BULBS

Of All Kinds.

Hulsebosch Bros.,

ENGLEWOOD, N. J.

ANTON SCHULTHEIS,

P. O. BOX 78,

College Point, Queensborough, New York, N. Y.

HEADQUARTERS

For Ericas (Heather); also full line of other Flowering Plants.

PALMS and DECORATIVE PLANTS IN QUANTITY.

Come, see and convince yourself.

FERNS! FERNS!

The following Ferns, TO CLOSE, at $2.00 per 100; $15.00 per 1000. All 2-inch, strong:

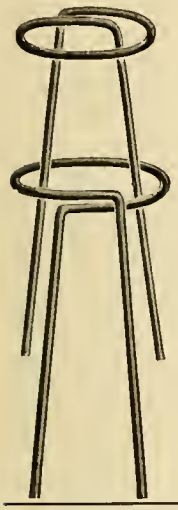
Pteris Tremula	Pteris Ensifolia
" Serrulata	Adiantum Cuneatum
" Serrulata Cristata	" Williamsii
" Longiflora	" Pubescens

E. HIPPARD, - Youngstown, Ohio.

Mention the American Florist.

EXCELSIOR

CARNATION SUPPORT



Lengths 10, 13, 18, 20 inches

Price, $1 per 100, $8 per 1000.

ROOTED CUTTINGS OF

Carnations..

150,000 ready Jan. 10th. Special prices on early orders.

Evelina	Flora Hill
White Cloud	Jno. Young
Victor	Triumph
Argyle	Mrs. Joost
Painted Lady	Mrs. Jas. Dean
New York	Bon Ton
Wellesley	Empress
Gold Nugget	Mrs. Bradt
Armazindy	Psyche, Etc.

No order too large. None too small.

H. F. LITTLEFIELD,
Worcester, Mass.

PELARGONIUMS.
15 of the leading varieties, all good kinds. Rooted cuttings, $2.00 per 100; 2½-in. pots, $3.00 per 100.

VERBENAS.
30 of the leading kinds. Rooted cuttings, 60c. per 100, $5.00 per 1000; 5000 for $23.00, 10,000 for $40.00.

PETUNIAS.
15 of the best and latest varieties, not all one color, under different names. Rooted cuttings, $1.25 per 100, $8.00 per 1000.

HELIOTROPE.
8 varieties. Rooted cuttings, $1.00 per 100, $7.00 per 1000.

COLEUS.
20 good varieties. Rooted cuttings, 60c. per 100, $5.50 per 1000.

Express prepaid on all varieties except pelargoniums. Satisfaction guaranteed or money refunded. CASH PLEASE. Write for list to

S. D. BRANT, Clay Centre, Kas.

Geranium "MARS"

	Per Doz.	Per 100
ROOTED CUTTINGS	$.50	$3.00
2½-INCH POTS	.75	5.00

Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

HYDRANGEA OTAKSA

XX strong plants, per doz., $3.50; per 100, $27.50
" " for 8-inch pots.....per doz., $3.00; per 100, $20.00
Medium size, " 2.00; " 12.00
ERICA FRAGRANS, 5 & 6-in. pots, per doz., 4.50
Extra fine plants.
DUTCH BULBS & INDIAN AZALEAS now at hand.

L. C. BOBBINK, Rutherford, N. J.

BEGONIAS.

	Per 100	Per 100
Argentea guttata	2-inch, $2.00;	3½ inch, $4.00
Feastii, Speculata	2-inch, 2 00;	
Rubra	2-inch, 3.00;	
Bertha Chatteaurocher, Robusta	3½-inch,	4.00
De Lesseps, Pres. Carnot	3½-inch,	4.00
Roses—La France ... $3.00 per 100; Meteor . .		2.50
White, Pink and Yellow Rambler 3½-inch		4.00

Full standard list. 2½ in., 3½ in and 4 in.

THE NATIONAL PLANT CO., Dayton, O.

Pansies Worth Raising.

The finest **SEED**, as usual, $1.00 per package, 3-16 ounce.

No more PLANTS before December 1, except transplanted, blooming stock, $10 per 1000 f. o. b. Express. CASH WITH ORDER.

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

We've thousands of readers and hundreds of advertisers. Each helps the other.

Herr's Pansies.

Good little plants (greenhouse grown) ready December 1st, at 75 cts. per 100, or $4.00 per 1000.

ALBERT M. HERR, LANCASTER, PA.

Herr's Carnations.

Every cutting guaranteed satisfactory or money refunded. All the leading varieties in quantity at reasonable prices.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20 per 1000. Rooted Cuttings, 75c per 100; $6.00 per 1000; $50 per 10000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country.
Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

Going Fast

1000 CHINESE PRIMULAS and **OBCONICA**, 2¼-inch, per 100 $2.00.

25,000 GERANIUMS, 40 up-to-date bedders, 2¼-in. Our selection, per 100, $1.75; per 1000, $12.50.

8000 BEGONIAS, in 18 varieties, pot-grown, 2¼-in. Our selection, per 100, $2.00; per 1000, $15.00.

3000 LITTLE GEM FEVERFEW, strong, 2¼-inch, per 100, $1.50.

5000 COLEUS, up-to-date bedders, strong, 2¼-in., per 100, $1.50.

500 GYNURA or Velvet Plant, getting scarce, per 100, $3.00.

MORRIS FLORAL CO. MORRIS, ILL.

ALTERNANTHERAS.

ROOTED CUTTINGS.....$6.00 per 1000
ENGLISH IVY..... 3.00 per 100
GERANIUMS, 16 var., 2-in. pots, 3.00 per 100
CASH, PLEASE.

JOS. H. CUNNINGHAM, Delaware, O.

	Per 100
DRACAENA Indivisa, 6-in. pot grown,	$20.00
" " 5-in. "	15.00
HYDRANGEA Otaksa 6-in. "	20.00
" " 5-in. "	18.00
UMBRELLA PLANT, 4-in., fine.....	4.00
FERNS, assorted, 4 & 5-in., doz., $1.25	
COLEUS Klondike, rooted cuttings...	1.50

See Chrysanthemum Number for other stock.

CARL HAGENBURGER, W. Mentor, O.

1898. VERBENAS. 1898.

We challenge the world to show anything finer, size of bloom, variety of color and shades. They will rival a good chrysanthemum show. To introduce our Verbenas everywhere we will deliver at your door, express prepaid, for 30 days only, elegant plants out 2 and 2½-in. pots, full of cuttings, at $2.00 per 100. Strong rooted cuttings at 60c per 100, $5.00 per 1000. Cash with order. We can supply you cheaper than you can grow them and with a kind that sells at sight and will make you money. Send for our descriptive list—just out.

SOUTH SIDE FLORAL CO., Springfield, Ill.

Violet Clumps!

Luxoune, $5.00; Admiral Avellon, $4.00; California, $3.00; Russian, $3.00; Swanley White, $4.00.

CANNA CLUMPS. Try some of our pink Cannas.

The Conard & Jones Co., WEST GROVE, PA.

GERANIUMS S. A. Nutt, Marvel and other standard varieties, 2-inch pots, $2.00 per 100.

ASPARAGUS SPRENGERII, strong pl'ts, 2½-in. pots, $6.00 per 100.

BOUGAINVILLEA, large bushy p'ants, 4-in. pots, $10.00 per 100.

Carnations all sold.

NATHAN SMITH & SON, - Adrian, Mich.

CARNATIONS.

All the new and leading varieties. Contracts for rooted cuttings made now. Send for prices, stating what you want.

GEO. HANCOCK & SON, Grand Haven, Mich.

To Catalogue and Market Men.....

NOW READY!

STRONG CANNA TUBERS

of 1 to 3 eyes.

NEW—Florida, Gloriosa, Surprise, Pres. McKinley, $5.00 per 100.

Mme. A. Bouvier, Flamingo, Alsace, Souv. de Antoine Crozy. $3.50 per 100.

Italia, Queen Charlotte, Chicago, Philadelphia, Eldorado, Comte de Bouchand, Papa, Glory de Montet. $2.00 per 100.

Burbank, Florence Vaughan, Egandale, Salmon Queen, Sunset Glow, Mme. Crozy, Chas. Henderson A. Bouvier, John Laing, Paul Marquant, Austria, and many more. $1.50 per 100.

Full 1000 of Burbank, Austria or Egandale, $8.00
Full 1000 of Florence Vaughan or Queen Charlotte, $15.00. (All others named, 10 per cent. off by the 1000.)

ORDER NOW. Nothing reserved at these figures.

F. O. B. Express or Fast Freight.

Pampas Plumes. Crop 1898.

Size in length, exclusive stems. First-class in every respect.

	Per 100
17 to 20 inches	$.75
20 to 22 inches	1.00
22 to 24 inches	1.25
24 to 27 inches	2.00
27 to 30 inches	3.00

Pampas Grove Nurseries, Greenland P. O., Fla.

Geraniums

Well-rooted cuttings, best varieties, mixed, $1.00 per 100; $9.00 per 1000.

Cash with Order.

PETER BROWN, - Lancaster, Pa.

Lettuce Plants

BIG BOSTON, BOSTON MARKET, GRAND RAPIDS and TENNIS BALL.

Extra strong plants, 15 cts. per 100; $1.00 per 1000; $8.50 per 10,000. If by mail, add 10c per 100.

CASH WITH ORDER.

R. VINCENT, Jr., & SON, White Marsh, Md.

CYCLAMEN

GIGANTEUM SEED.

New crop in best mixture. The finest strain of Giant flowering varieties grown. Be sure to sow. Per trade pkt., 200 seeds, $1; half pkt., 50c. Strictly cash.

JOHN F. RUPP, Shiremanstown, Pa.

THE JENNINGS STRAIN **PANSIES.** SEED. PLANTS.

Finest mixed. Good little plants for cold frames, $4 00 per 1000, express.

Seed, $1.00 per pkg, $5 00 per ounce.

E. B. JENNINGS, L. B. 254, Southport, Conn.

Grower of the Finest Pansies.

Smilax

EXTRA FINE, 12½ cts. per string. ANY QUANTITY.

A. J. BALDWIN, Newark, O.

St. Paul.

TRADE IS GOOD IN THE NORTHWEST.—VIOLETS AND CARNATIONS ARE SCARCE.—HIERSEKORN STARTS A BRANCH.—MINNESOTA FLORISTS ELECT NEW OFFICERS.

While we have had no exhibition to help matters along, nearly everyone has enjoyed a good trade and both growers and store men are wearing pleasant smiles and preparing to offer thanks for prosperity, past, present and prospective.

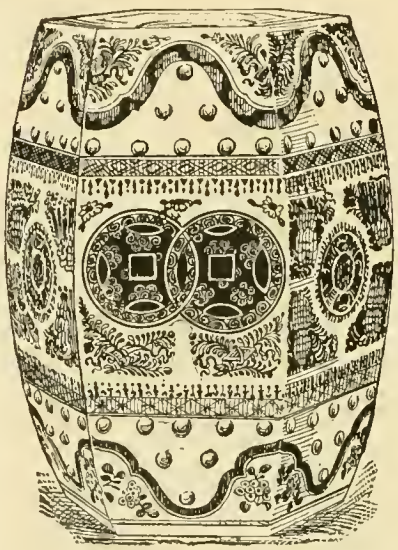
In cut flowers chrysanthemums take the lead, though Beauties, violets and carnations are also in good demand. Outside of chrysanthemums and white roses, the supply is not equal to the demand. Carnations are backward, the only one now to be seen in quantity being the Daybreak, and while a great many more violets were planted than in former years the cut is wholly inadequate.

Otto Hiersekorn, who has been doing business on East Seventh street for a number of years, has opened a branch store on East Fourth street, a little away from the business center, but in a location where a good trade will undoubtedly be established, as he is a hard-working, painstaking and artistic florist.

The Society of Minnesota Florists held a meeting in Minneapolis on Saturday evening, November 19, electing the following officers: E. Nagel, president; Aug. Vogt, vice-president; S. D. Dysinger, secretary; Aug. S. Swanson, treasurer; and Messrs. Busch, Will and A. W. Lemke, executive committee. The treasurer's report showed a balance of $24 on hand. Admission fees and membership dues were suspended for three months and an invitation extended to all florists in the state to join the society. Future meetings will be held the second Saturday of each month. FELIX.



CANTON CHINA PLANT-POT.



CANTON CHINA HALL-SEAT OR PLANT-POT STAND.

PLANT POTS AND PEDESTALS.

We invite the attention of intending buyers or those interested in seeing the newest productions of the potter's art to our importations of English, French, German, Japanese and Chinese plant pots or jardinieres selected by our buyers at the places of production in the present season.

They include all sizes and shapes up to the large and very large, from the lowest price up to $150 each.

Some very costly old blue Canton China.

Our stock of China and Glass occupies seven floors and more than 10,000 bins.

Wholesale and Retail.

Jones, McDuffee & Stratton,

CHINA AND GLASS MERCHANTS,

120 Franklin Street, BOSTON, MASS.



BRANCH WAREHOUSES:
Kearney and Westside Aves., Jersey City, N. J.
Jackson Av. & Pearson St, Long Island City, N. Y.

Standard FLOWER Pots

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST,
Station M, N. E. WASHINGTON, D. C.

SAVE 25 PER CENT
on your FLOWER POTS. Send for price list and Bargains to
HILFINGER BROS. POTTERY, Fort Edward, N. Y

Standard Flower Pots...

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

☞ Write us before placing your orders elsewhere.....

CAMBRIDGE TILE MFG. CO., Covington, Ky.

Please Mention American Florist.



THE HARRISH DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent.

KRAFT'S PLANT TONIC

THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. Send for circular and descriptive price list.

THIS INSECTICIDE IS NON-POISONOUS.

KRAFT PLANT TONIC CO., - ROCKFORD, ILL.

FLOWER POTS
ALL KINDS.
STANDARD POTS A SPECIALTY
List and SAMPLES FREE.
J. G. SWAHN'S SONS, P. O. Box 78, MINNEAPOLIS, MINN.

THOSE RED POTS
"STANDARDS"
FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.
DETROIT FLOWER POT M'F'Y,
HARRY BALSLEY, Rep. DETROIT, MICH., 490 HOWARD ST.



GEO. KELLER & SON,
MANUFACTURERS OF
Flower Pots.
Before buying write for prices.
361-363 Herndon Street
near Wrightwood Ave.,
CHICAGO, ILL.

Standard Pots Made by
Good Railroad Facilities For shipping.
Special Attention Given to Mail Orders, and Special Sizes Made to Order.
KELLER BROS.
NORRISTOWN, PA.
Price Lists Furnished on Application.

THERE ARE BUYERS
For all kinds of good stock advertised in
THE AMERICAN FLORIST.

Kansas City.

NO CHRYSANTHEMUM SHOW THIS YEAR.—THE HAIL STORM RUINED THE STOCK.—BUSINESS GOOD.

For the first time in four years Kansas City is without a chrysanthemum show, and the supply of the big blooms is, moreover, inadequate to meet the demand. This is the direct result of the big hail storm last May which broke thousands of lights of glass, ruined much stock and broke several florists financially. Every firm here was a heavy loser in that never-to-be-forgotten storm and three firms went out of business as a result of it: E. E. Heite and James Payne did not rebuild their crushed houses and Probst Bros. sold their establishment. The Heite Co. had a large area of glass. The others were mostly insured in the Florists' Mutual.

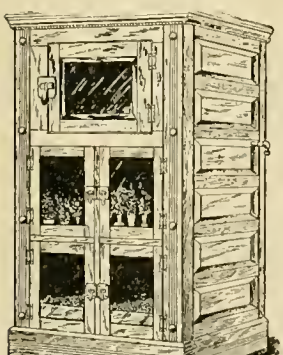
Retailers all report an encouraging demand for cut flowers. Chrysanthemums and carnations are scarce but American Beauties and other roses are quite plentiful and violets are in quantity to meet the present call.

George M. Kellogg, of Pleasant Hill, who recently opened at 609 Grand avenue, is well pleased with his venture.

JOLIET, ILL.—Joseph Labo, gardener at the Illinois penitentiary, has been making a splendid showing of chrysanthemums upon the second floor of the Joliet Dry Goods Co.'s building.

JEFFERSON CITY, MO.—Albert Ramet's chrysanthemums have been very fine this year, he having a big crop of blooms seven and eight inches in diameter. His varieties were Pres. Smith, Dailledouze, Viviand-Morel, Dr Callendreau and Mrs Bergmann. His carnations are also doing well and in that line he has a few each of many varieties.

HAMILTON, ONT.—The first flower show of the Hamilton Horticultural Society was held the past week at 128 King street. There was a fine display of chrysanthemums, roses, carnations and potted plants despite the fact that there were no cash prizes. Simon P. Stipe acted as superintendent and George Reeves, of Toronto, was the judge.



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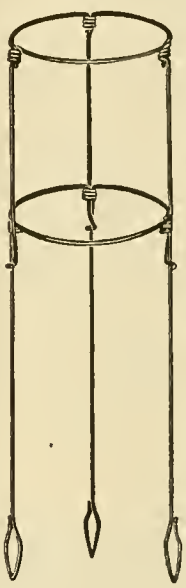
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MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
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PARK BOARD WILL BUILD A RANGE OF THOROUGHLY MODERN GREENHOUSES.—EVERYTHING UP-TO-DATE.—A PARK FOR A CENTENNIAL.

The park board will soon close a contract for the erection of quite an extentensive range of greenhouses. This will consist of three growing houses 20x125x 11 feet, with a palm house in front 30x62x25 feet with curvilinear roof and vestibuled entrance, and a potting house 30x62 feet fitted up with an office, also a basement the full size of the potting house, divided off with rooms for storage, heating apparatus and coal. The range will be constructed of steel and iron and heated with hot water. The growing house benches will be of iron with tile slab bottoms. There will be a double line of ventilating sash operated by improved apparatus on each house. It has been the aim of the park board to build as near an indestructible range as possible, using no wood except cypress sash bars and doors. They think it will be a model range of houses, and those who have seen the plans agree with this view. It will be erected at Walbridge Park, a point admirably located for the distribution of plants to the other parks.

The Ohio State Centennial Committee has chosen Bay View Park at Toledo as the site for holding the Ohio centennial in 1903. The park contains three hundred acres and is situated at the head of Lake Erie, overlooking that beautiful body of water. It is in the city limits, accessible by boat or street cars, and in all respects an ideal location. The centennial is to commemorate the one hundredth anniversary of the admission of Ohio as a state.

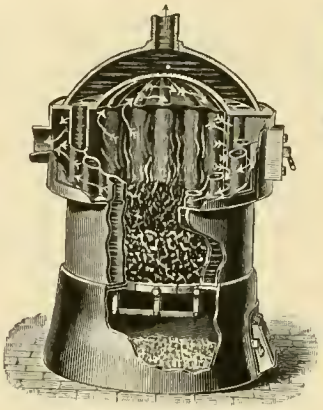
Providence, R. I.

There were a few things at our recent show that deserve special mention. Among them were a vase of Meteor, Bridesmaid and Kaiserin roses and a vase each of Daybreak and Mrs. Geo. M. Bradt carnations that were especially fine, grown by S. J. Reuter, of Westerly.

Ladies night at the last meeting of the Florists' and Gardeners' Club was well attended, about one hundred being present. A musical with refreshments and dancing occupied the time till midnight. Farquhar Macrae contributed two large vases of chrysanthemums which were divided among the ladies on retiring.

Geo. C. Pierce, of Edgewood, has bought a farm at Whitehorse, N. H., and will make it his home. Ill health compelled him to make the change from greenhouse work.

John Severin has opened a flower store on North Main street. LITTLE RHODY.



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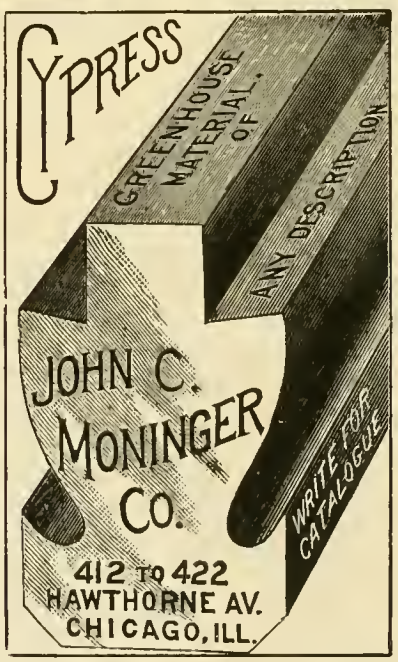
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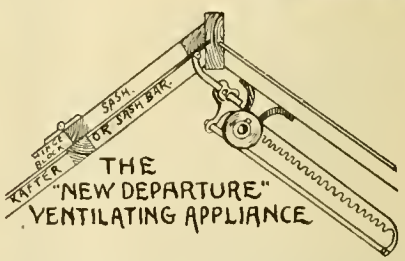
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Cincinnati.

TRADE AND THE MARKET.—JOTTINGS PERSONAL AND OTHERWISE.

Trade has been good, with a steady increase in the call for good stock. The Cincinnati Cut Flower Company reports a big shipping trade. Violets are improving in quality and prices have moved a step upward. A scarcity has been felt in Beauties. Carnations meet with a steady demand. Chrysanthemums are still plentiful with the exception of good white.

H. Tong, manager of Massassanga Gardens, Erie, Pa., had a seedling chrysanthemum before the C. S. A. committee here on November 19. The flower is large and graceful, Japanese incurved; color delicate pink shading to white.

Mrs. Mamie Weeks, the Covington florist, was quietly married on November 7 to Geo. Hussey, an advertising agent of the C. H. & D. R. R.

Charles Gardner celebrated his twenty-fifth wedding anniversary at his Newport home on November 20. Mr. and Mrs. Gardner were the recipients of many beautiful presents. H. SCHWARZ.

Rochester, N. Y.

Since last report the flower trade was more active, though prices are still low, even for the very best stock. A vast number of chrysanthemums are in sight, roses and carnations are quite plentiful and violets are coming in more freely.

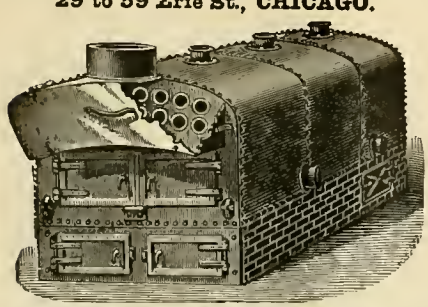
Geo. Keller is busy planting his last batch of violets in benches where he had his earlier chrysanthemums. From the houses planted first he is now picking good sized flowers, though the plants are slower in their growth this year.

At Schlegel's the violets look as healthy as ever; they have grown them in the same old houses for the last fifteen years. Geo. Savage, at Kimball's, has put up a cozy and very neat little violet house where he formerly had a heated frame and his plants are as vigorous and healthy as any in town.

Alfred Dimmock was a visitor here last week, but good salable blooming plants of Acalypha Sanderi are too high priced as yet for our slow town. J. B. K.

PORTSMOUTH, N. H.—The annual exhibition of chrysanthemums at the Frank Jones conservatory was visited by thousands of people during the five days it lasted. It was the best exhibition ever given here and the gardener, Mr. Patterson, has every reason to be proud of its success.

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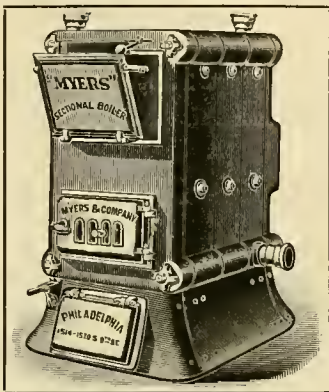
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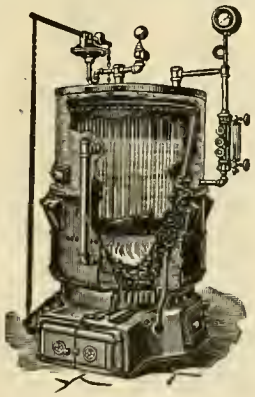
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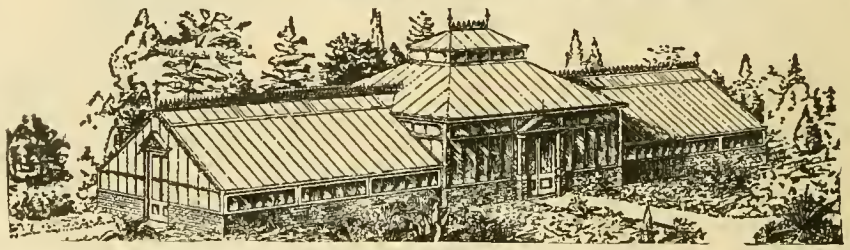
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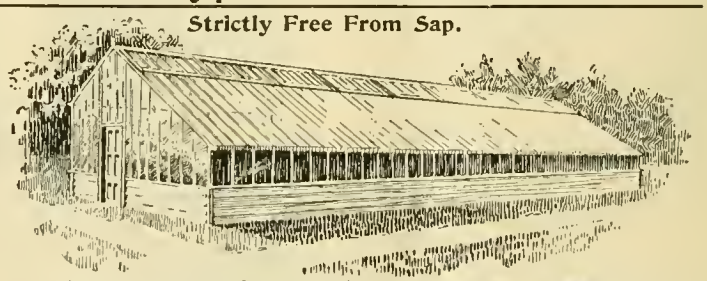
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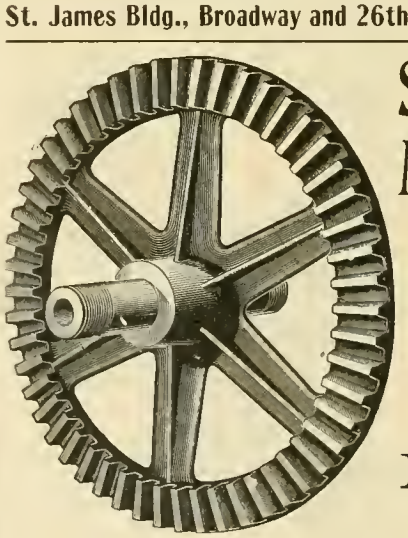


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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

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Greenhouse Heating.

[Paper read by Henry W. Gibbons, of New York, at the November meeting of the Morris County Gardeners' and Florists' Society, Madison, N. J.]

The ultimate results of a greenhouse heating apparatus depend not so much upon the nature of the heating medium used, whether it be the old-fashioned flue heat, hot water or steam, as upon the proper proportioning and distribution of the radiating surface, and on the arrangement and proportioning of the pipes used for distributing the heating medium.

In considering the providing of a heating apparatus, the question which first arises is, of what nature shall it be, radiation from flues, hot water or steam? And in this connection also arises the question of cost. The least costly to install but the most costly to maintain, and at the same time the least effective in its desired results, is the flue system, so I will not devote much time to this, except to suggest that where such a system is desired make the flue, whose length should not exceed seventy-five feet, of 12-inch salt glazed drain tiles, the joints being well filled with good cement mortar, and give the flue an upward grade from the furnace to the opposite end of not less than one inch in five feet, and as much more as circumstances will allow, in order to secure a quick draught, and also a direct rise of about three feet from the furnace before starting off on the run.

The question of the superiority of either of the other two systems requires much consideration before reaching a decision, as the advantage of the one or the other depends very largely upon the particular requirements of the grower, the extent of the houses to be heated, and other points of which I will speak later.

We will first consider steam as the heating medium, its advantages and disadvantages. This system has these very desirable features—its comparatively low cost of installation and, what is of vastly more importance, a perfect and prompt control of its circulation and consequent heat radiation. With this system, unless steam is formed in the boiler, no heat is given off in the greenhouse, and as, in a well proportioned boiler, steam may be produced very quickly it will readily be seen that with this system heat may be promptly produced, increased and diminished at the will of the person in charge, which in this latitude of sudden rise and fall of outdoor temperature, are points of immense importance.

The pipes used for circulating steam through the greenhouses, being of small diameter, 1-inch or 1¼-inch, the requisite amount of radiating surface can be readily distributed so as to produce the desired warmth throughout all parts of the house. In the matter of regulating the heat in the more steady winter weather, the heating medium being distributed through a large number of small pipes, and all or most of these pipes being fitted with valves, the proportion of effective radiating surface and the consequent temperature of the air within the greenhouse is under the most absolute control of the person in charge.

These two objections to steam heat are raised by advocates of the hot-water system: First, the fact that if from any cause the fire should die down below the intensity necessary for the production of steam, heat ceases to circulate in the houses, which condition on a winter's night would be fatal to the stock within the houses. This objection is entitled to some consideration in connection with small greenhouses on private estates where the gardener is too often coachman and general utility man, and as such has duties more important to the immediate convenience of his employer which often prevent him giving the requisite attention to his greenhouse fires. But in connection with commercial ranges of any extent, or the larger private ranges, where duties other than the legitimate ones of his profession are not imposed upon the gardener or person charged with the proper care of the fires, this objection carries no weight.

The other objection is the slight increase of fuel consumption. This is the case with small houses, and particularly where boilers of inadequate capacity are used, but on larger ranges, and particularly where boilers arranged for the consumption of the cheaper grades of fuel are used, the point of fuel economy is on the side of steam heating.

The hot water system of heating, which consists of a circulation of hot water through pipes within the greenhouse, has claim to two good points: First, should any accident happen to the fire in the boiler the heat contained in the body of water within the pipes is often sufficient to maintain a safe temperature in the house even after the fire has become very low or out entirely, and also that so long as there is any fire in the boiler its radiant heat is carried into the greenhouse; therefore the temperature of the air within the greenhouse is less liable to be materially affected by any temporary variations in the intensity of the fire, which is a great advantage on small places where the management of the fires is liable to neglect.

The objection to the hot water system is that the temperature of the radiating pipes is so slow to respond to the desires of the operator, the heat contained in the large body of water preventing

the prompt cooling of the pipes when desired, and the body of water also being so slow in responding to increased firing, thus preventing a sudden increase in the temperature of the pipes.

The heating by hot water, however, is effected by two methods, one in which the water is circulated through large cast iron pipes, usually four inches in diameter, for which the advantage claimed is steady heat under fluctuating conditions of fire, which, however, is more than counterbalanced by the absence of prompt and perfect control. This system is, however, the most costly to install. The other system is that in which the water is circulated through small pipes, which, requiring a lesser quantity of water, modifies both the advantages and objections present in the other method.

After carefully considering all points I place the several systems in the following order of merit: For general commercial work and in large private ranges, where fires will receive reasonable attention, steam is preferable. Next in order of preference I would place hot water in small pipes, occupying, as it does, a position midway between hot water in large pipes and the steam system, both in its advantages and disadvantages, and also in cost. The third position is occupied by hot water in large pipes, this being, however, preferable on places where the attention to fires is liable to be variable; also for use in small greenhouses.

On large ranges, even when the regular heating system consists of a hot water plant, the installation of a small steam boiler connected to one coil of 1-inch pipe in each of the houses will be found of immense advantage, especially in rose houses. I doubt if there is a rose grower present who heats by hot water who has not felt the want of such an addition to his heating plant, especially during fall and spring months, when the weather conditions are such as to favor mildew, the conditions of steam heat and the possibility of evaporating sulphur on the heated pipes giving him one of the most powerful weapons for warding off this semi-annual pest.

We will now consider the distribution and arrangement of piping best suited for the several systems. I prefer to carry steam direct from the boiler to the highest point, and then descend on a continual down grade back to the boiler, making an entire circuit of the house with at least one 1-inch pipe, but preferably with two, and arrange such other coils as may be necessary in the most convenient positions for securing the desired temperature in all parts of the house. The object of making one circuit of the house is that in mild weather a little heat can be added, which will effect all parts of the house as evenly as possible, which could not be done with a flow and return coil under each bench, as when the radiation from two pipes would be ample to produce the desired temperature, this heat would necessarily be given off on one side of the house to the neglect of the other. This single circuit pipe is also very convenient for the sulphuring operation to which I just referred.

In steam heating, the coils are preferably of 1-inch and 1¼-inch pipes, and all coils should be valved so as to admit of the most absolute control. In installing a steam heating plant the most vital point, as regards its perfect working, is to arrange for perfect and positive drainage of all pipes; if this point is attended to a noiseless and perfect circulating system is easily provided.

In a hot water plant it is very necessary to provide mains of ample capacity to return the water to the boiler as rapidly as the boiler is able to heat it to a temperature of about 200°, and make all runs from the mains as direct as possible. Mains should have a grade upwards from the boiler of about one inch in five feet, if possible, and running pipes, one of one inch in ten feet or not less than one inch in twenty feet. Expansion tanks should not be placed at the far or upper ends of the runs, as they not only occupy much valuable bench space, but add the risk of damage to plants in case of a sudden splash-over of the hot water, and allow of an escape of steam, which if retained in the pipes would add to the temperature of the radiation from the pipes. A short standpipe should be placed at the upper end of all runs, and fitted with a valve for the relief of any accumulated air and the expansion tank may be placed at any convenient point in the workroom with a connection to the return pipe of the boiler only, and be fitted with a gauge by which the height of the water is readily observed by the attendant. Where 2-inch pipes are used, the tank should be placed at as great a height as convenient, so as to increase the pressure of the water in the pipes and thus allow of the water being raised to a temperature approaching very nearly the boiling point, a great advantage in very severe weather.

Whether it be a steam or hot water heating system, I am somewhat in favor of a little overhead heating surface, not necessarily for regular winter firing, but for use on those damp, foggy days when bottom heat is not required, but when a little overhead warmth to temper and dry out the atmosphere is much to be desired.

We now come to the question of boilers. The purchase of a boiler for heating the new houses causes the average greenhouse man more worry and anxiety than any other feature in the necessary equipment of his houses, but if he will give due consideration to these few vital points the question becomes an easy one to solve. In the first place, the question of first cost must become secondary, that of heating results and fuel economy being of primary importance. A direct and upward travel of the fire and products of combustion means a quick travel and consequent loss of heat into the chimney, so I would say positively, avoid such boilers as have only a direct and upward travel of the fire. Horizontal travel of fire heat is slower and therefore more effective, and in boilers having such direction of fire travel a longer flue surface is possible, and therefore the heating surface and consequent fuel economy is increased. Downward travel of the fire heat is, however, still slower than the horizontal, and consequently boilers in which such travel is provided in reasonable extent are much to be desired. Also bear in mind that the lower surface of horizontal flues is of little, and under the ordinary conditions of cleanliness, of no value, the side and top surfaces of such flues being the effective ones; therefore a deep vertical flue is of more economic value than a wide and shallow one. A deep firebox is desirable, as are also ample fire doors, and doors which will give free and unobstructed access to all parts of the flues for the purpose of cleaning For this purpose holes just large enough to admit a brush are of no practical value; the means of access must be such as to render all parts of the flue visible.

When dealing with a manufacturer or dealer who is thoroughly experienced in and conversant with the requirements of greenhouse work, you will be safe in accepting his advice as to the size of boiler necessary, but in other cases it is safer to get the boiler at least one and sometimes two sizes larger than the published capacity would indicate that you require My reason for this warning is that most boilers on the market are intended for dwelling heating or similar work, in which a high chimney is provided, and in connection with which a sharp, bright fire is carried, with continual replenishment of fuel, whereas in



CHARLES A. SAMUELSON'S EXHIBIT AT THE CHICAGO SHOW.

greenhouse heating the boiler has to do its hardest work at night, with a slow, deep fire and little attention.

CARNATIONS.

CULTURAL NOTES.

December 3.—Occasionally one encounters a grower who, after spending considerable time and money in the production of good blooms, will almost ruin them by his system of packing for shipment. First-quality blooms, when sent direct to the retailer, should be packed almost the same as roses. A very suitable box for this purpose will be thirty-six inches long, twelve inches wide and not less than six nor more than eight inches deep.

In packing such a box, when it will be delivered within six hours from the time it was packed, it will not be necessary to make any provision for keeping the flowers fresh, excepting in warm weather when a little ice can be put among the stems. For a short run, and where your former experience is a guarantee of careful handling, the blooms can be packed with the heads all one way, taking care to pack the box full enough so that they can not jostle too much and become bruised. Where there is the least doubt as to their being handled with the best of care it is better to pack them from both ends of the box, and when it is filled take a handful of damp moss and throw over the ends of the stems in the center of the box, covering this with a piece of paper to keep it from getting among the flowers. Then take a piece of inch square pine and, pressing the moss and stems tight with it, fasten either with screws or nails through the side of the box.

Commission houses do not care to have the flowers come to them packed singly on account of the extra labor involved in the handling and counting. The bunches of twenty-five blooms require, if anything, more careful packing to avoid bruising than do boxes of flowers which are not bunched. For bunched flowers a larger box is packed to best advantage and ten inches is a good depth, as this allows a double layer of bunches without crowding. The box should be long enough to pack from both ends.

In packing the box, unless it is to go a very short distance, wrap the ends of the stems in wet moss and when you have one layer packed cut a piece of lumber to press tightly on the moss-wrapped portions of the bunches and fasten it through the sides of the box. Pack another layer with the wrapped portion of the stems on the piece just nailed in, repeat the nailing down operation and you have a box that can be sent anywhere and handled in almost any manner without injury to the stock.

Wrapping as a protection from frost should be on the outside of the box and should be well done as it frequently happens that, while the best of care may be taken during transit, they are on the delivery wagon for an hour or more on a bitter cold morning. I find that newspapers tacked around the box, varying the thickness according to the state of the weather, and these covered with stout wrapping paper and the whole tied with strong twine, keeps my flowers all right, with no loss to record for the past two years. ALBERT M. HERR.

CARNATIONS REGISTERED.

The following carnations have been registered under the regulations of the American Carnation Society:

By the American Rose Co., Washington, D. C.—Mephisto.—Color of Portia; flowers very large, broad petals, great depth of form, borne on extra long stiff stems; never bursts calyx; free and early bloomer. Luna.—Color purest white; flowers of largest size, borne on very long, wiry stems; narrow foliage like McGowan but exceedingly strong, vigorous growth; very prolific bloomer and unusually fragrant; never bursts calyx. Potomac.—Color pure salmon pink, under artificial light taking an intense fiery depth; very broad petals; narrow grass-like foliage, very robust habit and a profuse bloomer.

By Peter Fisher, Ellis, Mass.—Mrs. Thomas Lawson.—Color dark pink; flowers of immense size, borne on an exceedingly long and strong stem and with an excellent calyx; vigorous growth and a free and early bloomer. The Maine.—Color white. (No further particulars)

By Henry Eichholz, Waynesboro, Pa.—Admiral Dewey.—Sport of Armazindy; white spotted and striped pure pink; can be used as a delicate pure pink; stem very stiff; flower extra large, calyx good, flower nicely fringed and scented.

By Fick & Faber, 1401 Woolsey street, San Francisco, Cal.—Vice Admiral Schley.—Color pink. (No further particulars.)

By M. Wieland, 1913 Maple avenue, Evanston, Ill.—Evanston.—A sport from Tidal Wave in color bright red; a very free bloomer.

By Elmer J. Weaver, Bird-in-hand, Pa.—S. S. Pennock.—Deep pink, very full and of good size, stem and calyx; habit good and a free and continuous bloomer.

By J. M. Gasser, 101 Euclid avenue, Cleveland, Ohio.—Merrimac.—In color a trifle darker than Tidal Wave; flower of fair size on a stiff wiry stem and with an excellent calyx; plant in habit resembles a William Scott, easy of propagation and an exceptionally free bloomer.

ALBERT M. HERR, Sec'y.



SEMPLE'S ASTER.

Semple's Asters.

Good samples of this popular aster are shown in the accompanying illustration. These flowers were grown from seed sowed during the latter part of April, and they measured five and three fourths inches in diameter, with stems three feet long. John Cook, of Downer's Grove, Ill., was the grower.

ROSES.

NAME OF ROSE.

ED. AM. FLORIST:—Please inform me in your next number as to the name of the enclosed rose, stating also whether it is a good variety for forcing and what care it should have. C. S.

Replying to the above inquiry, as near as I can judge by the condition of the flower sent—it was practically dried up, and only three small leaves came with it—I think it is Mlle. Alice Furon. This is a very nice variety but does not bloom free enough for general cultivation for winter blooming. JOHN N. MAY.

TOO MUCH FERTILIZER.

ED. AM. FLORIST:—What is the best course to pursue with roses which have been given too much fertilizer? The plants are in benches and exhibit general debility, the leaves turning white and dropping. INQUIRER.

Physicians, when called upon to treat cases where the patients have been indulging in too much stimulant, invariably prescribe a very different diet, and where the patients can be induced to give up the stimulant entirely and be content with plain, wholesome food and drink, they, as a rule, regain their full health and vigor unless the disease has taken too strong hold of their system.

"Inquirer" should put his plants on a low diet, give them only sufficient water to maintain what root action they have and to retain their foliage, and give them all the fresh air possible without overdoing it. If the stimulant was in the form of mulching, it should all be taken off and if any of the roots are on the surface a little fresh soil should be spread over them. Keep the night temperature down to 56°, with a little fire heat; syringe lightly overhead every fine morning. Continue this treatment till the plants show that they are regaining their lost vigor. When this comes they should get a more liberal portion of water, but nothing else till the soil in which they are growing is well filled with active working roots. JOHN N. MAY.

Carmody's Eloquence.

At the opening of the twelfth annual festival of the State Florists' Association of Indiana at Tomlinson Hall, Indianapolis, November 8, President J. D. Carmody made the following interesting address:

The scene before us to-night is one that should inspire all with a desire to know something about the design of the Great Creator in giving to man this wonderful production of nature, and my remarks on this occasion will be simply to call your attention to the unwritten history of flowers and later on how this nation should utilize some of them in an ideal way as well as for decorative adornment.

Flowers conspicuous in graceful form and glowing colors are not necessary to the production of either seed or fruit, for many plants, trees and shrubs go through the routine of growth and reproduction without noticeable bloom. The fig family produces fruit without flowers to herald its presence and, by the way, I am inclined to believe it was a fig that Eve ate in the Garden of Eden instead of an apple as many would have you to believe, for apples are preceded by blossoms and I am of the opinion that flowers were an afterthought of the Creator and not in existence till after the advent of woman. In proof of this opinion we argue that nothing is created before a demand exists. Woman—the flower of the animal kingdom—was not created till man found out there was something lacking to make his happiness and misery complete. God listened to his tale of woe and made woman, and she seems to fill the bill.

The florist knows that without woman for a patron it would be useless to grow flowers and certainly he is not more wise than the Creator. Therefore having made woman to please man, flowers were made for woman's better enjoyment and happiness, and were further utilized in the general plan of reproduction in botanic structure. Thus to woman, I believe, the world is indebted for the floral kingdom and all the ideal conceptions that follow in the train of poetical thought which ever hovers around objects of beauty, grace and grandeur. From flowers poets have received inspiration that gave birth to grand expressions of praise to the Creator. Mythology has created a coterie of sprites, gnomes and fairies who dance attendance to a queen of all the flowers. Nations have selected special favorites which are recognized as the tutelar flower of their land and their people do homage to its presence at home and abroad.

All the world accepts the rose as the flower of England; the shamrock belongs to Ireland, the thistle to Scotland, the iris to France, the cornflower to Germany and in this hall we are assembled to do honor to Japan through the homage we bestow on her national flower, the glorious chrysanthemum. While nearly all other nations have their national flower to love and cherish, we, who believe our nation the grandest on earth, have to borrow our neighbor's children to pet when our hearts are filled with a desire to magnify the choicest gift of God to man, flowers the after thought of the Creator.

Is this as it should be? Are we as a people the money-worshippers the Spanish call us? Are we devoid of all sentiment and love of the beautiful in nature? Heaven forbid! 'Tis only the voice of ignorance that makes such assertions. Our institutions of benevolence denote our charity and kindness of heart. Our conservatories of music and the arts bespeak our culture. Our frequent flower shows occurring at stated periods all over the land and the grand parks in our larger cities evince great achievements in the line of floriculture.

We are a people that loves flowers and uses them to a great extent for decorative purposes. But how few of us are versed in the language of flowers. The sentiment of flowers is too much neglected. How grand it would be to have one flower recognized as the ideal flower of Indiana. At home and abroad, wherever that flower was seen, it would brighten the eye and quicken the pulse of the Hoosier. If in a foreign land, he would take it to his heart and exclaim, "This is the flower of my native land; God bless it and my own sweet home!" If I could have the selection of that flower, it would be the large white field daisy, common all over our state, yet loved by all, finding a place in the palace of the rich as well as the hovels of the poor.

If you will hear with me a few minutes longer I will relate in verse my experience among the fays and fairies who surround the castle where dwells the queen of all the flowers, while the subject of a national flower was being discussed by the queen and her subjects:

THE NATIONAL FLOWER.

Fair Flora heard it whispered round,
That mortals who dwell on Freedom's ground,
Thought to choose from out her subjects fair
One flower, so grandly beautiful and rare,
And yet so kindly loved and widely known,
That all who tread this earth should own
The magic of its gentle sway,
And sing its praise in gladsome lay.
At home, abroad, on land and sea,
Pride of the nation this flower should be;
Wove in the flag, 'mid stars 'twould wave,
"O'er land of the free, and home of the brave."
And every patriot's heart would swell
With joy and pride, as he'd hear them tell,
Columbia's brow with beauty is crowned,
Our long sought gem at last is found.

Pleased was the goddess to hear the news,
And, bathing afresh with glistening dews
Those loved attendants by heaven sent
To bless and beautify this continent,
She breathed to them what she'd learned
In evening zephyrs, that gently turned
The quivering leaves, and lulled to rest
Helpless birdlings in their downy nest.
And to aid dull mortals in their choice,
To flowers gave a mortal's voice,
And bade them speak their own sweet will
From out the wood, glen or hill,
Where'er their rootlets sought and found
A welcome from coogenial ground.
"But hark ye, subjects mine, while I express
Those attributes they must first possess
Who would woo and win such great renown
To wear in Freedom's land the only crown.

To alien blood you may not own!
Nor can you in other lands be known
To hold that grand imperial name
That crowns with honor, rank and fame.
Ye must dot the soil from sea to sea,
From northern lakes, to southern lee,
And every state that helps create,
This happy land, so free and great,
Must know thee well and love thee too,
Else to thee they'll ne'er be true.
But mark me well, if thou thrive best
On, hill, or dale, or on the quiet waters rest,
Be thou proud and high as oaks do grow,
Or meek and humble as the grass below,
Thy mission is a noble one and grand,
And through untold ages this free born band
Shall look to thee, bright tutelar star,
To guide through earth, to heaven afar."

Myriad was the floral throng
That listened to the goddess' gentle song,
(For in song she ever chants her tidings),
But many shrank still closer to their hidings
In the glens and dells, or 'neath the heather,
Too modest, or too listless, to endeavor
Their claims to press, while others, all too proud,
Tossed their haughty heads and in voices loud,
Rejected with disdain this mortal mission;
Deeming it beneath their spiritual position
To share with mortals ideal fame,
E'en for a grand immortal name.

At length spake the rose—of all the flowers queen—
"We've adored thee, gentle goddess, long as we've
been
Loving subjects in thy beauteous realm.
Thy words are wisdom, and o'erwhelm
Thy subjects with their sublime import.
It grieves me much that a foreign court
Doth my firm allegiance claim,
Else with joy and gladness would I aim
To win, and winning, regally wear,
The royal prize that waits the pure and fair.
'Tis true they come not empty, who receive
Adoration from these mortals. We believe
The grace and beauty they possess,
Fit recompense for every fond caress
They give, receive, yet all honor hold
Which makes the glory e'en two-fold."

Then to mortals she gracefully turned
Her queenly face and calmly said, "I've learned,
Most noble nation of the earth,
'Tis in thy heart to honor floral worth.
If this be truly thy intent
A boon I crave, that I present
The flower of all the world most divine;
Her form doth grace and loveliness combine;
Her breath adds incense to the summer air.
Modest is she, and in beauty none compare
With my sister, Lily of the Waters.
Nymphæa she is called by earth's fair daughters,
For as a nymph she floats on every flood
That mirrors heaven's arch and verdant wood
Within this continent. White as the driven snow
She sits, the emblem of purity below;
Glorify her beauty, deify her name,
Emulate her virtue in your strife for fame."

With these words the rose departed,
The lily hid her modest face,
The golden rod seemed broken-hearted;
Others drooped in sad disgrace.

Flora closed her courtly session
From mortal eyes discerning,
Leaving them in hot discussion
As to the flower most deserving.

CHRYSANTHEMUMS.

NAME OF CHRYSANTHEMUM.

Replying to "C. F. P.," we have to state that we fail to recognize the variety, as no foliage is sent with the bloom. The style of the flower reminds us very much of the California variety, Buff Globe. C. W. J.

WORK OF THE COMMITTEES.

The committees of the Chrysanthemum Society of America held their last sessions for the year in their several cities on November 26 and entered the following records:

NEW YORK, N. Y.—John Lewis Childs, Floral Park, N. Y., exhibited White Maud Dean, white, pink tinge, incurved, Japanese; scored commercial scale 85 points.

BOSTON, MASS.—Grove P. Rawson, Elmira, N. Y., exhibited Eclipse '98, light yellow, incurved, Japanese; scored both scales 94 points.

PHILADELPHIA, PA.—Nathan Smith & Son, Adrian, Mich., exhibited Nagoya, yellow, Japanese, reflexed; scored commercial scale 87 points. Xeno, by same grower, pink, Japanese, incurved; scored commercial scale 89 points.

CINCINNATI, O.—John N. May exhibited Adula, white, incurved, Japenese; scored commercial scale 85 points. This is the same variety that was exhibited as 12–95 at Boston, Philadelphia and Chicago November 19. Nathan Smith & Son exhibited Xeno, pink, Japanese, incurved; scored commercial scale 85 points.

CHICAGO, ILL.—Nathan Smith & Son exhibited Xeno, pink, Japanese, incurved: scored commercial scale 89 points.

ELMER D. SMITH, Secretary.

OBITUARY.

ALEXANDER W. LIVINGSTON.

The pioneer seedsman of Ohio, Alexander W. Livingston, died at his home in Columbus at midnight November 10, aged 77 years. He came of Scotch-Irish parentage, and was born October 14, 1821, at Reynoldsburg, Ohio, ten miles east of the capital city. His parents were Ohio pioneers, and his early life was filled with the hard toil of pioneer farming. The surrounding country being at that time almost a wilderness his parents were able to give him but few advantages. His opportunities for getting an education were very limited, attending public school a few winters only, after he was 10 years of age. He had a keen eye and a ready mind, and from his early years trained himself in the study of nature's methods of work, and was soon recognized among neighbors and friends as an authority on plants, weeds, etc., on account of the accuracy of his observations.

When he reached his majority he went to work on his own account by the day, job, or any other way. During this time he worked four months for a neighboring gardener and seed grower, who had at that time a limited box commission seed trade. This short experience, no doubt, gave him a taste for what was to be his life work, and was the only opportunity that he had of benefiting by the direct instruction of others in seed growing. At the age of 23 years he married a woman who was to him a helpmeet in the full sense of the word. They began life together on a leased farm of 113 acres, where they lived for eleven years, and where their family of seven sons and three daughters began to be gathered about them. Here also enough money was saved to purchase a farm of fifty acres, and a large amount of experience accumulated in the growing of vegetables and seeds, as he had been engaged while on this farm in seed growing for the trade, trading in stock and general farming.

Soon after purchasing his new farm he quit general farming altogether and devoted his entire time to the seed business, having bought out the box commission seed business of his former employer. This business he continued until 1877, when, after severe losses for two years, he changed his mode of operating from a commission business to growing and selling seeds direct to the growers, issuing a seed catalogue annually from that time until the present date. In 1877, in order to obtain better business facilities, he removed to the city of Columbus, where he founded the business now carried on by A. W. Livingston's Sons. Here he lived the remainder of his life with the



THE LATE ALEXANDER W. LIVINGSTON.

exception of about ten years, between 1880 and 1890, which time was spent in establishing a seed business at Des Moines, Iowa, and which is still carried on by one of his younger sons.

Most of the time that Mr. Livingston was engaged in the seed business he conducted experiments with new varieties of vegetables, striving always to produce those of real merit. He was always deeply interested in tomato culture and enjoyed relating his first experience in becoming acquainted with the vegetable which he afterward made famous by his experiments. He was but 10 years old at the time, and, gathering a few wild tomatoes in a fence corner, where he had found them, took them to his mother, who informed him, as was the general opinion at that time, that they were poisonous and could not be eaten. As soon as he engaged in the seed business he began giving much of his attention to the improvement of the tomato. For many years he was unsuccessful, but, persevering, finally succeeded. His aim was from the first to grow a tomato that would be always smooth in contour, uniform in size and fine in flavor. After repeated failure he finally hit upon the theory that the vegetable kingdom was like the animal kingdom, and that by selecting the best plants each year the standard would be raised until the result desired would be obtained.

The theory put into practice was successful, and after many years of experimenting the first perfect tomato was obtained. It was named the Paragon, and soon became famous the world over. Up to that time tomato culture had not been of any particular interest. With the discovery of the Paragon soon his other smooth varieties followed, and in time tomato culture began to be one of the great enterprises of the country. Since that time Mr. Livingston discovered many other superior kinds of tomatoes (Honor Bright being his last introduction) and some of them developed to meet the conditions of climate and soil in different parts of the country. He was very successful and his discoveries became so popular that his name soon became a household word and was known throughout the land at the time of his death. Besides being the originator of many of the standard tomatoes of the day, he engaged in raising many other varieties of vegetables; notably melons, sweet corns, cucumbers, etc. His development of a perfect tomato was the attainment that made him famous, however, and he will long be remembered for that discovery.

Mr. Livingston was one of the foremost men of his community in all matters of public interest. In hospitality, needed improvements, larger educational facilities and disinterested liberality he took a place in the front rank. Although not a member of the American Seed Trade Association, when able to attend its meetings he took a lively interest in its deliberations. He was much interested in Farmers' Institute work, attending meetings nearly every week for several winters past in different sections of the country. His motto in business was, "Give every man the worth of his money."

A widow, five sons and three daughters mourn his loss. He was twice married. He is dead, but his works live after him.

New York.

BUSINESS UNPRECEDENTEDLY DULL.—STORM AFFECTS FLOWER SALE.—FERNS SELLING LOW.—GLASS SUFFERS FROM SNOW.—FINE GERANIUMS.—VISITORS.

Not for a long time has there been so general a feeling of dejection in the cut flower trade as is manifested this week. It extends all through the list, retailers, growers and wholesalers all agreeing that the present distress is unprecedented for the season. Looking for the cause, several contributing factors are disclosed. In New York City, Thanksgiving Day has never amounted to much as a flower holiday. Notwithstanding this, it appears that a large quantity of flowers in the aggregate, were held over by growers in anticipation of a better sale on Wednesday and Thursday, some parties sending in three times their usual cut. This would, in itself, have made trouble but when Wednesday and Thursday showed up in a soaking rain storm the result can be imagined. Friday accomplished nothing and on Saturday the blizzard arrived, since which time severe weather has prevailed, while in the meantime receipts have been piling up with no visible or imaginable outlet. The crop of many growers in now fully on and this makes the situation very discouraging especially when it is considered that the first half of December is always a tough period when money is spent very spar-

ingly, so that no relief is in sight until the holidays come. Ten dollars a thousand for roses is a tough nut to crack at the first of December, but that is considered a good sale to-day. The depression extends to all lines of cut flowers although chrysanthemums are well on the wane and not seriously in the way.

Plant trade moves rather slowly with lower prices prevailing on most staple varieties. Small ferns, while moving in enormous quantities, are being sold this fall at figures that seem absurdly low and leave but little, if any, margin for profit.

The appealed suit of Bridgeman against Thorley on a claim for one-eighth interest in the business during seven years of service was decided in the Supreme court on Thursday in Bridgeman's favor. The amount involved is about $30,000.

C. W. Ward's geranium houses are a brilliant and inspiring sight at present. There are about eighty varieties, including all the newest and best of the European introductions.

Clucas & Boddington have received a large shipment of Asparagus Sprengerii from Italy in apparently perfect condition.

H. A. Bunyard has received a large order from Sydney, N. S. W., for his florists' cabinets.

A number of reports have come in of glass broken in by weight of snow during the recent storm. Greenhouse owners take notice.

Two handsome specimens of Cocos plumosus, twenty feet high are among the decorations of Small & Sons' store.

Paul Berkowitz, of Bayersdorfer & Co., was in town Monday bound for the Hub.

Visiting New York: J. C. Vaughan, Chicago; Stephen Hoyt, New Canaan, Conn.; Edwin Lonsdale, Robt. Craig and John Burton, Philadelphia.

Philadelphia.

THE VIOLET SITUATION IN THE QUAKER CITY.—ROSES AND CARNATIONS ADVANCE IN PRICES.—GONTIERS IN DEMAND.

Violets may have been plenty in this city at one time, but it was not during the early part of the past week. There are a few bunches of the southern stock to be had, but as these are seldom sweet they are not much sought after. Monday and Tuesday before Thanksgiving day found a good demand for violets but none were to be had, while on Wednesday "the woods were full of them," and the demand was not large enough to use them all. Many of the bunches of fifty were very small, being made for the most part of partially opened flowers which had neither fragrance nor beauty. The loss in such cases generally falls on the grower, who in his eagerness to get an advanced price for a larger quantity often fails by reason of the low standard of his flowers and an overstocked market. Orders from headquarters to rush along the stock for an eager market seem to have but little effect on the grower, who thinks he knows best, and finds out his mistake too late. Such holding back of stock is a great detriment to the business as the retailer, on account of the apparent scarcity, is afraid to take orders, when, if he knew the true state of affairs, he could act intelligently and everyone concerned would be benefited.

Roses have been fairly plentiful but the demand has been good and even at the advanced price few if any remain unsold. All varieties here have taken a jump in price. Brides and Bridesmaids are much improved since the weather has set in cold, the difference in size and color over a week or ten days ago being very marked. Meteors have not showed up at all well this fall and even at this late date they are far below form. There is but little variety in the teas. La France, Carnots and Gontiers are conspicuous by their absence. Gontiers are in demand, $4 being easily obtained for all the stock in sight.

Carnations have also joined the high price crowd and good stock sells readily for $2 per hundred. A little more silica in the stems would help most of them, as many otherwise good flowers have not the strength of stem to hold them up.

Wm. J. Baker's new wagon is all right. It has ball bearing wheels, the printing is in good taste and everything about the vehicle is strickly up-to-date. K.

Boston.

GREAT THANKSGIVING TRADE.—THE BLIZZARD CONSIDERATELY KEPT AWAY UNTIL IT WAS ALL OVER.—ENORMOUS SHIPMENTS TO NEW ENGLAND POINTS.—FINE EXHIBITIONS OF CHILDREN'S HERBARIUMS.

Boston has just had a blizzard experience unique for November, and which we have no desire to see repeated in November or any other time. It was very thoughtful of it to stay away until Thanksgiving was all over. Thanksgiving was pretty tough as to weather, we thought at the time, but in the light of the visitation of three days later it seems to have been lovely. Boston is always favored with a big flower trade at Thanksgiving. It rivals Christmas when they buy flowers as they did this year. Trade was good all through the week, but it reached its culmination on Wednesday, when it seemed as if every village in New England was clamoring for American Beauties, Meteors, chrysanthemums and carnations. The capacious refrigerators of the city wholesalers that had been packed to the doors steadily for weeks, were actually emptied clean before Wednesday night and many an order had been turned back because there was nothing within reach to fill it with. The city trade was large; the country trade was prodigious. Welch Bros. shipped no less than sixty-five boxes of flowers on one train alone—the 11:30 a. m. going northward, Wednesday. Prices did not advance greatly until Wednesday when it became evident that the supply was short and that buyers were ready to stand a sharp advance rather than to be turned down. Yellow chrysanthemums were in lively call and flowers that had gone slowly at 75 cents per dozen up to that time, brought $2 a dozen without a protest. American Beauties doubled up; in fact all kinds of roses did, when of good quality. As usual the refuse remained till the last, buyers being unwilling to touch it at any price until they had to take that or nothing. Many more carnations could have been placed, especially the colored varieties, for which there was a continual hunt for two days. Dark weather and the stimulus to cut closely for Thanksgiving left the supply very short for the succeeding days and so the famine continued and good prices have prevailed ever since.

The exhibition of herbariums by the children at Horticultural Hall last week was a record breaker, there being over two thousand one hundred specimens exhibited, filling the two halls completely and excluding quite a number of mounts for which there was no room. The work, done by children from seven to sixteen years of age, was really marvelous, many of the most difficult species being preserved in perfect form and color and beautifully mounted, with the botanical and common name and habitat neatly inscribed on each. The display attracted many visitors, who wondered at the skill and patience shown by the little ones and enthusiastically commended the committee of the Horticultural Society who have put into operation this beautiful and healthful nature study.

James Delay & Son have secured the privilege of a flower stand in the new South Union Station which is soon to be opened.

In town: S. S. Skidelsky, Philadelphia, Pa.

Albany, N. Y.

Among the various points of interest about the capital of the Empire State, the floral establishments located on Pearl street are by no means the least attractive, and those who contemplate a visit to the metropolis to study up-to-date methods of conducting flower stores would do well to stop over at Albany and call on Goldring Bros., H. G. Eyres and Whittle Bros.

Goldring Bros'. greenhouses are located at Slingerlands where they have three houses of American Beauties that are beauties indeed. Not a plant but what is healthy, thrifty and well developed, not a bloom but what is perfect and borne on a long, stiff stem. Their Meteors and Bridesmaids may well rank with what is generally called choice stock. Of carnations they grow four houses, confining themselves to the standard varieties. A white seedling of their own, named Catherine Goldring, looks quite promising. It possesses size and fragrance and is a free bloomer. Bulbous stock is grown at this establishment in large quantities and what is rather unusual is the sight of Roman hyacinths in bloom at this time. The bench of Swanley violets was fairly covered with a mass of white blooms, both flowers and foliage being perfect, and the same holds true as regards their Marie Louise and Farquhar.

The Davidson greenhouses, one of the oldest establishments in the city, are closed and will likely be torn down in the spring.

Peter Barr, the famous horticulturist from London, has been recently entertained by Sam. Goldring, who has known Mr. Barr for many years. HOMO.

Worcester, Mass.

Trade on the whole remains rather quiet with a plentiful supply of good blooms of carnations, roses, chrysanthemums, violets and Roman hyacinths. Chrysanthemums are going a little slow, but by dint of easy prices we have not yet had any especial surplus. The Harvard-Yale foot ball game caused quite a little run on crimson chrysanthemums, and violets, but not nearly so much as in former years.

F. B. Madaus is receiving congratulations upon his marriage to Miss Minnie Judge.

C. W. Menck, for many years in charge of the bulb department at H. F. A. Lange's establishment, is the happy father of a son.

In town: D. M. McRorie, representing W. A. Manda. A. H. L.

THE AMERICAN FLORIST

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

Holly and Greens—Special Telegram.

NEW YORK, Dec. 2.—The heavy snows along the Atlantic coast have hindered holly cutting, and the quality has also deteriorated; there may be a scarcity of this as of bouquet green.

THE fraudulent check works nearly as smoothly as the palm swindle. Look out for them both.

CORRESPONDENTS in nearly all sections of the country report exceptionally good trade Thanksgiving week. Christmas trade prospects are highly encouraging.

PELARGONIUMS have not decreased in price: $4 per hundred was intended in S. D. Brant's advertisement last week, which appears again in this issue, instead of $3 per hundred.

THE family of Mrs. Theresa Loeb have donated $1000 to the National Farm School at Doylestown, Pa., for the erection of a structure to be known as the Theresa Loeb Memorial Greenhouse.

THE executive committee of the Society of Danish Gardeners has passed a resolution to the effect that young men entering the profession in Denmark shall serve an apprenticeship of five years in not more than three situations. At the expiration of this term each apprentice will receive a journeyman's certificate from the society.

DAN'L B. LONG, of Buffalo, N. Y., has sent us some very attractive calendars, designed for distribution by florists among their patrons. The designs show considerable artistic skill, and the names on the samples show that they have already met with wide approval in the trade. In a miscellaneous assortment we find represented such floral concerns as Palmer and Anderson, of Buffalo; E. G. Hill & Co., Richmond, Ind.; Jos. Kift & Son, Philadelphia; George M. Kellogg, Kansas City, Mo.; and W. J. Smyth, Chicago.

WE are in receipt of the ninth announcement concerning garden pupils in the Missouri Botanical Garden. From this we learn that two scholarships will be awarded by the director of the garden, prior to the first of April next. One of these may be awarded on the nomination of The St. Louis Florists' Club. The other will be awarded on examination. Vacancies which may subsequently arise will be filled annually, after published announcement. Applications for these scholarships, to receive consideration, must be in the hands of the director not later than the first day of March. The preliminary examination will be held on Tuesday, March 7, at the Botanical Garden, St. Louis, at 10 a. m. If there are more than two applications, the examinations will be competitive and held at the same place on Friday and Saturday March 10 and 11. Full particulars may be had on application to Prof. Wm Trelease, Missouri Botanical Garden, St. Louis, Mo.

Defective Packing and Shipping.

The transportation of floral products from the greenhouse to the commission man or retailer does not as a rule receive the consideration which its importance demands. Whether it be cut flowers, plants in bloom, or decorative ferns and palms, the greatest care should be taken to guard against every possibility of harm, so that nothing short of a railroad disaster or runaway team would interfere with their safe delivery. Some successful growers, after bringing their stock to the highest state of perfection, have been guilty of gross negligence in this respect. They have packed pans of cyclamens and other plants in the bottom of a box, nailed the cover on top, marked it "This side up with care" and let the express company do the rest, a course which generally results in a hash of soil, broken pots, leaves and flowers. A box that is not to be turned upside down should never be closed on top, as otherwise it is invariably toppled over, and the express company cannot be held responsible if the box remains intact. Plants in bloom, such as lilies, roses, etc., should have the flowers protected, or in nine cases out of ten they will arrive at their destination in a bruised and comparatively useless condition, and thus at last become a loss to both grower and purchaser, where a little forethought and care in packing would have made them a source of profit to all concerned. Plants with soft foliage, such as the Boston fern, are frequently ruined in delivery, where through carelessness in tying, or in leaving the plants loose to be whipped about in an open wagon, the tips of the fronds receive irreparable injury. Cut flowers are often rendered almost unsalable in the same way, and too frequently any old box, no matter what previous service it has seen, is employed for their shipment, a proceeding which accounts for the varied fragrance of spices, tobacco and soap which characterizes stock of the same kind from the same grower. Many flowers are packed immediately after cutting, when they should be placed in water for a few hours or, better still, over night. In consequence they are soft and easily damaged A chapter could also be written on the cutting and picking of flowers, a correct knowledge of which seems to be lacking in many establishments of the highest character in other respects.

The American Florist Company's Directory.

The final corrections are now being made for the next edition of our directory of florists, nurserymen and seedsmen, to be issued January 1, and we trust our readers will promptly inform us of any business changes which have come to their notice within the past year. Advertisements and orders for the use of large type in names of alphabetical list should be mailed as early as possible.

Catalogues and Cut Flower Price Lists Received.

Vaughan, McKellar & Winterson, Chicago, Ill., florists' requistes; Daniel B. Long, Buffalo, N. Y., florists' calendars; Ellwanger & Barry, Rochester, N. Y., novelties, trees and shrubs; Cincinnati Cut Flower Co., Cincinnati, Ohio, cut flowers; Holton & Hunkel Co., Milwaukee, Wis., cut flowers; A. C. Prince, Chicago, Ill., cut flowers; Ellis & Pollworth, Milwaukee, Wis., cut flowers; Wm. F. Kasting, Buffalo, N. Y., cut flowers; W. A. McFadden, Cincinnati, Ohio, cyclamens; Rudolph Kircher, Wandsbek-Hamburg, Germany, plants and seeds; Albert Cauchoix, Orleans, France, roses; The Rosary Flower Co., New York, N. Y., plants and flowers; W. W. Barnard, Chicago, Ill., Christmas decorations; Vaughan's Seed Store, Chicago and New York, Christmas decorations; Welch Bros., Boston, Mass., cut flowers; Wm. F. Kasting & Co., Pittsburg, Pa., cut flowers.

Florists' Flower Shows.

Florists whose enterprise has led to profitable public displays of their chrysanthemums in the past few days are: Miss Tinnie K. Freeman, Orleans, Mass.; A. J. Taylor, Burlington, Vt.; John J. Arnold, Homer, N. Y.; P. Finn, Carthage, Mo.; John G. Sholl, Burlington, N. J.; Christ. Winterich, Defiance, Ohio; N. J. Burt & Co., Burlington, Iowa; B. Schroeter, Detroit, Mich.; C. Scrim, Ottawa, Ont.; A. L. Harmon, Iola, Kas.; Broadway Greenhouses, Toledo, O.

Greenhouse Building.

New Brighton, N. Y.—N. Muller, one conservatory.

Brattleboro, Vt.—P. S. Chase, one greenhouse.

Bristol, Conn.—T. L. Thomas, house 15x65.

Williamsport, Pa.—D. E. Gorman, four commercial houses.

Newton, Mass.—Fannie C. Coburn, conservatory 20x75.

Springville, N. Y.—Geo. Staffinger, one commercial house.

Lowell, Mass.—H. B. Greene, three commercial houses.

Collamer, Pa.—L. D. Miller, three commercial houses.

Waterloo, N. Y.—E. Smith, two greenhouses.

Wolfboro, N. H.—G. P. Gridley, house 27x60.

Newton Center, Mass.—W. A. Sanderson, one greenhouse.

Westbury, N. Y.—Luessen Hotel, one conservatory.

Oswego, N. Y.—Peter Salter, one greenhouse.

Islip, N. Y.—C. D. Moss, one greenhouse.

Oswego, N. Y.—Peter Salter, one greenhouse.

Columbus, Miss.—Adolph Dieterich & Co., two houses 16x75, one house 22x140.

Doylestown, Pa.—National Farm School, one greenhouse.

Detroit, Mich.—City parks, show house 30x114, propagating house 40x125 and four smaller houses, potting shed 24x114.

Keeping Hardy Cut Ferns in Winter.

ED. AM. FLORIST:—Please give full particulars of the best method of keeping or storing hardy cut ferns in winter and oblige. SUBSCRIBER.

Pack in boxes, 3,000 to 10,000 in each, with holes bored in the sides, top and bottom, say four or five one-inch auger holes on a side. Pack with damp, fresh sphagnum between each thousand and around the sides, and then place boxes in cold storage at a temperature of 30°. I have five millions of them now packed and stored in this way. L. B BRAGUE.

Grevillea Robusta.

ED. AM. FLORIST:—You will oblige very much by giving the best method of propagating Grevillea robusta. J. K.

It may be that there are other methods of propagating Grevillea robusta, but I have always grown it from seeds sown in spring, employing a light compost and a temperature of about 50°. GROWER.

Wholesale Prices.

ED. AM. FLORIST:—Through the AMERICAN FLORIST we desire to be protected from the practice of the wholesale cut flower dealers in sending out price lists on cards, without envelopes, thus giving to the public, through postoffice employes, the wholesale prices on cut flowers. We are in receipt of a mailing card 5½x11 with prices in large figures which can be read plainly by any person handling it; hereafter we will consign all such price lists to the waste basket and hope that other retailers will do the same, only patronizing those who send their prices under the cover of an envelope.

Yours, RETAILER.

Culture and Propagation of Araucarias.

ED. AM. FLORIST:—You will oblige by giving in the AMERICAN FLORIST the best soil and temperature for araucarias. Are the plants of these from cuttings any better than plants from seeds, as I see stated in some of the catalogues. P. F.

In reply to above, the araucaria is not at all particular as to soil, provided it is sweet and porous; nor is it so very nice as to temperature. It will thrive, all other things being equal, in as many different degrees of temperature as any other popular decorative plant with which I am acquainted. The higher the temperature in which it is grown the longer will be the joints between each whorl of branches. Plants from seeds are not nearly so satisfactory as are those from cuttings. Seedlings are too "leggy" to make satisfactory plants, without some manipulation. If "P. F." is catering to a local trade his best plan will be, in my judgment, to buy as many plants as he thinks he can sell to his customers to advantage, charge a reasonable profit, and let some other florist wrestle with the problem of propagating the Araucaria excelsa. E. L.

Chicago.

CHRYSANTHEMUM CROP HAS NEARLY ALL BEEN HARVESTED.—THE ROSE MARKET.—VIOLETS ARE SELLING WELL.—NOTES AND COMMENTS.

The chrysanthemum cut has nearly reached its close although some very fair Mrs. Jerome Jones and Modesto are still coming in. The season's production is estimated at twenty per cent in excess of last year's in bulk, but it is considered rather doubtful if the cash returns were any greater. The stock moved very slowly at times this season and the high grade blooms were not sought with such avidity. Commission men consider that the man who made most for his work was he who grew three or four blooms to a plant, obtaining for them 75 cents to $1 a dozen.

The scarcity of American Beauties becomes more acute each day and prices hold very stiff. There is an ample supply of other roses, pinks being over-abundant and whites in only fair demand. Meteor is too dark colored because of the weather. There is a difference of opinion between growers and buyers as to what constitutes first quality stock and it is only the extra select which commands a ready sale.

Carnations were short in the early part of the week, but the quantity of flowers in the market materially increased in the last three days. A notable feature is the increased demand for the novelties and fancies. Violets are in excellent demand and the supply of good stock is inadequate.

Harrisii lilies at Prince's, the only ones which have thus far reached this market, have this week fallen from $3 to $2.50 per dozen.

There is complaint from growers that consignments to this market November 23 did not bring expected returns, nor much more than half the figures realized for either the first two days or the last day of the week. For this, however, the growers must assume responsibility as many of them held back their crops until Wednesday in anticipation of high prices, with the result that the heavy receipts broke the market. Had the week's supply been evenly divided every one would have been better pleased.

At the meeting of the Florists' Club last evening there occurred a very interesting discussion as to the advisability of holding a spring flower show. Emil Buettner, the warmest advocate of such an exhibition, introduced the subject.

Frank Benthey & Co. will on Monday open a commission house at 37 Randolph street. Mr. Benthey has been with S. B. Winter prior to embarking for himself.

John Richter, Duluth, Minn., well known in the trade here some years ago, was on November 30 married to Miss Yahnke, a former employe of Phil. Hauswirth.

Klehm's Nurseries will in the future sell their product on consignment, discontinuing their counter at Kennicott's.

A. L. Schmidt, one of the new proprietors of the Reissig greenhouses at Riverside, and a Miss Gulden were married Thanksgiving week.

W. A. Reiman, of Vincennes, Ind., has been visiting his brother here for a day or two and has inspected various florists' establishments.

One wholesaler has estimated that the aggregate of business done in 1898 by Chicago wholesale and commission men will approximate $800,000.

Mrs. Hood, wife of W. C. Hood, late gardener to George and Robert Scott, Lakeside, Ill., died of dropsy Nov. 28.

C. A. Samuelson has the flower booth at the Jewish Bazaar at the Auditorium this week.

Richmond, Ind.

The firm of E. G. Hill & Co. has made this city so famous in the world of floriculture that one instinctively turns first to the establishment of this concern. But there is so much on this place to interest the average florist that one must make a separate story of it.

Passing for the time to other prominent growers, Mrs. E. Graves is found busy with her carnations and violets. The former grown here all summer indoors have given entire satisfaction, and Painted Lady was noticed in remarkably good form. Carnations planted in the benches after early chrysanthemums have not been a success, and Mrs. Graves will hesitate about repeating the experiment. A few roses are grown, mostly Bridesmaid, but violets and carnations are the principal market crops.

George R. Gause succeeded in closing in his extensive new greenhouse plant just before the first cold snap of the season came on. The houses are already well filled with promising young stock, and although a late start was made, indications point to a good business before the season closes. Mr. Gause still takes great interest in Rex begonias, and his stock of many leading varieties is both large and good.

Beach & Co. have a large retail trade, and carry a general stock useful in that line of business. One Rex begonia grown here in a basket was a marvel of luxuriant health, showing well the adaptability of these plants to conditions other than those generally advocated. Some plants in twelve-inch pans of Begonia Bertha McGregor, also of the Rex section, were remarkable for their vigor and attractiveness.

Fulle Bros. make roses and carnations their specialties, and they are having much success with them. These young men were formerly with E. G. Hill & Co., and the progress they are making speaks well for their early training.

Mr. Evans, at the Quaker City Machine Works, reports an excellent business in ventilators, and his employes are rushing out machines to fill many orders still in hand.

Holyoke, Mass.

E. H. Howland gave a chrysanthemum show at his greenhouses which was well attended. His chrysanthemums in general, and those grown upon single stems in particular, were exceptionally fine this season, and were well worth seeing. Specimens of Bonnaffon, Mrs. Robinson, Wanamaker and others would compare well with the best of their kind exhibited in Chicago, New York and Philadelphia. G. H. Sinclair, who is a successful all around grower, is Mr. Howland's foreman. Two seedlings of their own, one pink, a cross between Jas. Lewis and Maud Dean, and the other one, white, a cross between Mutual Friend and another good variety, are decidedly meritorious. Most likely Mr. Howland will put them on the market. HOMO.

Rochester, N. Y.

The past week, with its blustering cold, was up to the average financially. Trade Thanksgiving day was fully as good as usual; stock was in splendid condition and amply sufficient for the demand. Violets were the only scarce article, yet their price was not advanced.

Chas. Vick, of Jas. Vick & Sons, is laid up with a very sore foot. A shotgun did the mischief while he was hunting rabbits.

Geo. Keller had for Thanksgiving a fine lot of Primula Forbesii in full bloom, which found ready purchasers and which should be more generally introduced in the plant market. The flowers are not very large, but are produced in great profusion and in uninterrupted succession. J. B. K.

GLOVERSVILLE, N. Y.—E. M. Giddings has leased his place on North Main street to Schefler & Stout and will move to Corfu where he will engage in business. Both Mr. and Mrs. Giddings will be greatly missed from Gloversville where they have made a host of warm friends.

WITH THE GROWERS.

AT BASSETT & WASHBURN'S, HINSDALE, ILL.

There is always much to interest visitors at such an extensive establishment as that of the above concern. Roses are the main crop here, and there is a vast array of houses of them in the best of health. The American Beauties are exceptionally fine, some 60,000 plants being grown. In one small house this variety is planted in solid beds, somewhat after the method adopted by several Philadelphia growers, and Mr. Bassett thinks well of the plan. The plants certainly look well, producing strong stems of great length.

Other roses extensively grown are Meteor, Bride and Bridesmaid. Several houses of Bridesmaid grown for summer blooming have been carried over, as it was too late to plant young stock when the crop had been taken from the older plants. Mr. Bassett is not yet fully satisfied as to the wisdom of this course, but is of the opinion that next year he will take up such stock and replant it in fresh soil. One house contains a trial lot of grafted Bridesmaid, but beyond affording longer stems, at this establishment they have not up to the present time shown any marked advantage over own-root plants.

Next to the American Beauties perhaps the greatest feature of this place is the carnation house 52x600, containing 30,000 plants. Most of the standard varieties are grown in quantity, and all appear to be doing well with the single exception of Triumph. This variety develops grass far out of proportion to the number of flowers it yields at this season. In spring it blooms more freely but this gives little comfort to the grower who is looking to his plants for a holiday crop. Compared with leading standard sorts in the same house, the new Mary Wood hardly deserves the reputation of shyness in blooming which some growers have given to it. Further experience with it, however, will more fully enlighten us on this point. One section of a bench was devoted to plants grown in the same position all summer, but these so far do not show any appreciable advantage over the general stock taken from the field. Another portion of the house contains a small patch of Portia, employed to fill out a bench when the stock of standard varieties had become exhausted. Nothing could more fully emphasize the progress made with carnations than the comparison of this old-time favorite with its modern companions.

Bassett & Washburn usually have a few Harrisii lilies in bloom for the chrysanthemum show, but this season their plants are so late that it is now doubtful if they will be in for Christmas, although some 40,000 are grown. There is comparatively little disease among the plants. Lilium longiflorum is also grown in quantity, and the general stock includes such sundries as lily of the valley, mignonette, asparagus, smilax and adiantum. Violets have been tried extensively, but as they have not proved a success, their culture has been almost entirely discontinued. The proprietors of this establishment are firm believers in drain-tile bottoms for benches in which planted out stock is grown, evidence of this fact being furnished in nearly every house. The tile invariably employed is heavy and three inches in diameter, and it insures to the roots plenty of air and prevents injury from over-watering.

NEWS NOTES.

DAYTON, OHIO.—J. B. Heiss is the latest victim of the palm swindler. His loss is upwards of $150.

GERMANTOWN, PA.—A blaze in the greenhouses of Frank Gummey did $100 damage on November 16.

LYONS, IA.—A chrysanthemum show was given November 16 as a benefit to Company L., Forty-ninth Iowa.

OMAHA, NEB.—S. B. Stewart met with an accident on November 28. A large vase fell from a shelf and smashed two of his toes.

SEATTLE, WASH.—Mrs. Lena McCoy held a highly successful opening of her new artistic flower store November 17, 18 and 19.

NICHOLSVILLE, KY.—Louis Moore, florist at the State University at Lexington, and May Alloway were married November 23.

SHARON, PA.—John Randall has gone to New York City. A son of Chas. Heinz was badly hurt November 15 while at work in the iron mill.

QUEENS, N. Y.—Chas. H. Allen had three greenhouses damaged by the recent heavy fall of snow—from eighteen to twenty inches on the level.

MILFORD, CONN.—O. H. Nye gave a public exhibition of chrysanthemums at his place of business on November 17, 18 and 19, to which 500 invitations were issued.

FRANKLIN, MASS.—Walter Slade was victimized the other day by a man who collected from him $3.50 to pay for a directory advertisement. The man afterwards proved to have been a fraud.

BENTON HARBOR, MICH.—J. H. Brumby has sold his interest in the Twin City Floral Co., and has taken charge of the private greenhouses and grounds of F. C. Austin at Harvey, Ill.

HINGHAM, MASS.—At the regular meeting of the Agricultural Society which was held during the time of the chrysanthemum show, Mr. John Farquhar, of Boston, gave a very interesting lecture upon his recent visit to Japan.

JEANNETE, PA.—Edward J. Koerbel, of the firm of Koerbel Bros., died November 20, of heart disease. He was 38 years of age and left a father at Pittsburg and three brothers, one here, one at Steubenville, Ohio, and one at St. Louis.

BINGHAMTON, N. Y.—Barnes & Moore suffered a loss of $1000 by fire November 23 in their house of bulbs and chrysanthemums. The fire started at 3:50 a. m. and is supposed to have been of incendiary origin. One house, uninsured, was entirely destroyed.

CRYSTAL SPRINGS, MISS.—The fourth annual exhibition of the Chrysanthemum Club opened November 17 with thousands of blooms on display. The judges were W. H. Cassell, of Canton, Miss.; Capt. W. J. Brown, Jr., Jackson, and Mrs. J. D. Granberry, Hazlehurst.

GALESBURG, ILL.—November 16–19 I. L. Pillsbury turned over his greenhouses and office to the ladies of the Christian church who gave an entertainment and flower show, receiving all the admissions and a per cent of the sales. The greenhouses were illuminated by electricity.

BOONEVILLE, N. Y.—Henry Russell's greenhouse was destroyed by fire for a second time on November 23 and this time there was no insurance.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By first-class fireman and steamfitter. Address Y N, care Am. Florist.

SITUATION WANTED—By all-round man well up in roses; place west of Chicago preferred. Address J N, care American Florist.

SITUATION WANTED—By all-round workman on or before Dec. 1st. Good fireman, propagator, etc. Address N Y, care American Florist.

SITUATION WANTED—By young man, 20, retail or commercial place; 1½ years' experience. References. H. E. ROBERTS, West Point, Pa.

SITUATION WANTED—As assistant by middle aged, single man, 2 years' exp. roses carnations. H. TYLER, Gen'l Del'y, Station S, Philadelphia.

SITUATON WANTED—Florist, 7 years' experience, roses, carnations, plants; single; private or commercial. Refs. FLORIST, 55 E. Pomfret St., Carlisle, Pa.

SITUATION WANTED—By florist and gardener; bedding plants, ferns, cut flowers; 13 years' experience. W. J. PACKHAM, 545 W. Utica St., Buffalo, N. Y.

SITUATION WANTED—As a first-class florist and gardener; good grower of roses, carnations, 'mums, violets and general stock; private or commercial; 10 years' experience, single. L 1, care Am. Florist.

WANTED AT ONCE—A steady and competent florist, one willing to work. $20 per month with board. Steady place and increase of wages to a good man. W. H. WRIGHT, 204 1st East St., Vicksburg, Miss.

SITUATION WANTED—By a strictly temperate florist with excellent recommendations; good greenhouse builder, painter, glazier; 15 yrs. exp. with gen'l stock; designer. PRACTICAL, care Am. Florist.

SITUATION WANTED—By all-round florist; 18 years' experience in palms, ferns, roses, 'mums, violets and general stock; strictly sober, capable of taking charge. References from present employer. W. J. CLINTON, Berthond St., Pittsburg, Pa.

SITUATION WANTED—By German grower, age 32, married; 8 years in commercial place; 7 years as private gardener. Prefer private place. Grow flowers and vegetables both under glass and outdoors. Good references. Address GARDENER, Tivoli, N. Y.

SITUATION WANTED—As foreman on commercial place by A1 rose grower, Am. Beauties a specialty; 15 years' experience, 8 years in present place. Only a first-class place wanted. Will be at leisure on short notice. Address K, care Am. Florist.

SITUATION WANTED—As foreman by as good a rose and cut flower grower as there is in the market. Thoroughly competent in all the different departments of the trade. Only those who want such a man need answer. Address WM. P. HANNON, Govanstown, Balt. Co., Md.

WANTED—A first-class horticultural stenographer and typewriter; a man who can also take charge of certain office work. Address with full particulars, SIEBRECHT & SON, 409 5th Ave., New York City.

WANTED—A rose grower, a competent experienced man who can produce high grade blooms of Beauties, Brides, Bridesmaids and Meteors. Address with full particulars, W. A. McFADDEN, "Rosebank," Cincinnati, O.

WANTED AT ONCE—Single young man to take charge of carnation houses; must have had two or three years' experience. Only steady and industrious persons need apply. Wages advanced yearly. State wages wanted with board STATE NURSERY CO., Helena, Mont.

WANTED—For well-kept wholesale and retail plant, reliable married man; foreman, orderly, earnest and temperate; palms and ferns specialty, 6 houses cut flowers, all modern improvements. To begin, $10 per week and 3 light steam heated rooms. ALBERT FUCHS, 2059-73 No. Halsted St., Chicago.

WANTED—A young man with some experience in the flower business. Must furnish best of reference as to character. This is a good chance for a bright, healthy, plucky young man to learn the up-to-date methods of a retail florist. When answering state experience, references and wages expected. Don't answer unless you are willing and think you are able to stay with employes of your weight. H. H. BATTLES, 108 So. 12th St., Philadelphia.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

FOR SALE.

A well established and paying florist's business, with 10 to 30 acres of land, 17,000 square feet of glass. Good residence and houses for help. Situated near one of the largest cities in California. Ill health and desire to retire from business cause for selling. For full particulars address LOCK BOX 720, Los Angeles, Cal.

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BOUQUET GREEN ROPING, $4.00 per 100 yards.
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Etc., Etc., Etc.,
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WHOLESALE FLORISTS, 705 PENN AVENUE, PITTSBURG, PA.
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WRITE FOR PRICE LIST. CONSIGNMENTS SOLICITED.

M. RICE & CO.,
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New Illustrated Catalogue Free for the Asking. 25 N. 4th St., PHILADELPHIA.

Wholesale Flower Markets

CINCINNATI, Dec. 1.

Roses, Beauties, select	25.00@35.00
" " medium	15.00@20.00
" Brides, Bridesmaids	4.00@ 5.00
" Meteors	4.00@ 6.00
" Perles	3.00@ 4.00
Carnations	2.00@ 4.00
Lily of the valley	4.00@ 5.00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00
Chrysanthemums	8.00
Narcissus, Roman Hyacinths	3.00@ 4.00

ST. LOUIS, Dec. 1.

Roses, Beauties	6.00@35.00
" Meteors	2.00@ 6.00
" Brides, Bridesmaids	2.00@ 6.00
" Perles	2.00@ 5.00
" Kaiserins	2.00@ 6.00
Carnations	1.50@ 2.50
Smilax	15.00
Adiantum	1.00
Asparagus	40.00@50.00
Chrysanthemums	5.00@25.00
Violets, California	1.00
" single	.35
Roman hyacinths	1.00
Narcissus, Paper White	5.00
Callas	10.00@12.50
Valley	5.00

MILWAUKEE, Dec. 1.

Roses, Beauties, long... per doz.	2.00@3.00
" " medium "	1.25@1.50
" " short "	.50@ .75
" Brides, Bridesmaids	4.00@ 7.00
" Perles	3.00@ 5.00
" Meteors	4.00@ 7.00
" Kaserins	4.00@ 8.00
Carnations, fancy	2.00@ 3.00
" good stock	1.00@ 1.50
Smilax	12.50@15.00
Adiantum	.75@ 1.00
Asparagus	50.00@75.00
Violets	1.00@ 1.50
Callas	12.50

PITTSBURG, Dec. 1.

Roses, Beauties	10.00@35.00
" Brides, Bridesmaids	4.00@ 6.00
" Meteors, Kaiserins	4.00@ 8.00
" Niphetos, Perles	3.00@ 4.00
Carnations, short stems	.75@ 1.25
" long "	1.50@ 3.00
Chrysanthemums, common	4.00@10.00
" fancy	10.00@18.00
Violets	.75@ 2.00
Lily of the valley	4.00
Smilax	10.00@15.00
Adiantum	1.00@ 1.50
Asparagus	50.00@75.00

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Brides, Bridesmaids, Meteors	$3 to $4.00
Perles	2 to 3.00
Carnations	1 to 1.50
Carnations, fancy	3 to 5.00
Valley	4 to 5.00
Asparagus, per string, 50c	
Smilax	10 to 12.50
Violets	1.25 to 1 50
Common Ferns, per 1000, 1.50	20c
Adiantum	75c to 1.00

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8 "	"	1.00
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BRIDESMAID	"	4.00 to 6.00
BRIDE	"	4.00 to 6.00
KAISERIN	"	4.00 to 6.00
PERLE	"	3.00 to 4.00
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" fancy	"	3.00

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" " 24 inch " "	.00@ 3 50
" " 20 " "	2 50
" " 15 " "	1.50@2 00
" " 12 "	1 25
" " 8 " "	1 00
" Brides	4 00@ 6 00
" Kaiserins	4.00@ 6.00
" Bridesmaids	4 00@ 6.00
" Perles	3.00@ 4.00
" Meteors	4 00@ 6.00
Carnations,	1 50@ 2 00
" fancy	3 00
Lily of the valley	4.00@ 5 00
Adiantum	.75@ 1 00
Common ferns	.20
Smilax	12.00
Asparagus	40.00@50.00
Violets	1 00@ 1.50
Chrysanthemums, common	4 00@12 00
" fancy	15.00@25.00
Catt'eyas, per doz.	$6 00
Cypripediums "	2.00

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PHILADELPHIA, Nov. 30.

Roses, Teas	2.00@ 4.00
" " extra	6 00@ 8 00
" Beauties, extra	25 00@35 00
" " firsts	12.50@16.00
" " seconds	8.00@10.00
Carnations	2 00
Lily of the valley	3 00@ 4 00
Asparagus strings	35 00@50.00
" Sprengeri per bunch .50@1.00	
Smilax	12.00@15.00
Violets, double	.75@ 1.50
Chrysanthemums	6.00@16.00
Narcissus, Roman Hyacinths	4 00

BOSTON, Nov. 30.

Roses, Beauties	8.00@30.00
" Kaiserins, Meteors	4.00@10 00
" Brides, Bridesmaids	4 00@ 8.00
Carnations	1.00@ 2.50
Lily of the valley	3.00@ 4.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1 00
Chrysanthemums	4 00@12.00
Violets	.75@ 1 00
Roman hyacinths	3.00

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Consignments of Roses, Carnations, Violets solicited.

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Give us an order and we will please you.

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TELEPHONE 2778 38TH STREET.

Top Grade BEAUTIES, BRIDES, BRIDESMAIDS.

Extra Carnations.

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WHOLESALE **FLORIST**

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ASPARAGUS PLUMOSUS NANUS!

STRINGS 8 TO 10 FEET LONG, 50 CENTS. W. H. ELLIOTT, BRIGHTON, MASS.

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Roses, Beauties	5.00@20.00
" Bridesmaids, Brides	1.50@ 3.00
" Morgans, Perles	1.50@ 2.00
" Niphetos, Cusins	.50@ 1.00
Carnations	.50@ 1.25
" fancy	2.00@ 3.00
Lily of the valley	2.00@ 3.00
Smilax	8.00@12.00
Asparagus	35.00@50.00
Cattleyas	40.00@50.00
Cypripediums	6.00
Mignonette	4.00@ 8.00
Adiantum	.50@ .75
Violets	.75@ 1.75
Chrysanthemums	5.00@12.00
Roman Hyacinths	2.00

BUFFALO, Dec. 1.

Roses, Beauties	10.00@50.00
" Brides, Bridesmaids	4.00@ 8.00
" Meteors	3.00@ 8.00
" Perles, Niphetos	3.00@ 5.00
" Kaiserins	4.00@ 8.00
Carnations, ordinary	1.25@ 2.00
" fancies	2.00@ 3.00
Lily of the valley	4.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	.75@ 2.50
Chrysanthemmus	4.00@20.00

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TELEPHONE 1675 38th St.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

R. W. CLUCAS, of Clucas & Boddington, is on a trip south.

VISITED CHICAGO: Lester Morse, of C. C. Morse & Co., Santa Clara, Cal.

THE contractors for the government seed orders are reported making progress.

WM. HAGEMANN, of Philadelphia, has lately returned from the North Carolina tuber district.

ONION SEED prices, wholesale, on California stock seem to be from 15 to 20 cents per pound lower.

CINCINNATI.—Fire in the store of C. F. Wilder, 219 West Sixth street, resulted in a loss of about $35 November 18.

VISITED NEW YORK:—C. W. Crossman, of Rochester, N. Y.; E. B. Clark, Millford, Conn.; Hagemann & Meyer, of Phila.

SINCE pumpkins are used for Thanksgiving dinner tables as flower vases, seedsmen must grow and offer a strain of handsome and suitable shape.

NEWARK, N. J.—Rowe & Null is the title of a new seed establishment in this city. The Chas. H. Rowe of the concern was formerly with Johnson & Stokes, of Philadelphia.

EXTRA EARLY VALENTINE, Black Wax and one or two other beans are hardly to be had from seedsmen at any price except when bought in a general order with other stock.

THE will of the late K. Pahn Lee, of the firm of Henry & Lee, New York, was filed at White Plains, N. Y., November 22. He left an estate of $10,000 to his relict, Elizabeth S. J. Lee.

LATE advices from Delaware are to the effect that select holly will be somewhat scarce. Bouquet green is still being held at stiff prices, and, judging from present indications, it will be scarce throughout the season.

DENVER, COLO.—Mr. J. C. Bowman having resigned from his position with Barteldes & Co., H. Warnecke and C. R. Root are named as the future managers of the concern, with J. M. Wiesel as assistant manager.

Onion Seed Prices.

Our item of last week was hardly clear. We intended the types should say these are the *suggested* prices. Latest views are as follows:

	Per lb.
Red Wethersfield	$1.50
Extra Early Red Flat	1.60
Southport Yellow Globe	1.75
Yellow Globe Danvers	1.50
Yellow Flat Danvers	1.40
Yellow Strasburg	1.50
White Portugal	2 25
White Globe	2.50
Southport Red Globe	3.00
Early Red Globe	2.50
Prizetaker	1 75

The Rocky Ford Musk Melon.

Because of the interest excited among the seed trade by the demand for and sale of this new melon, the AMERICAN FLORIST has secured two articles on the subject, one from Mr. Roland Morrill, the Michigan melon grower, the other from Mr. Frank T. Emerson, the Nebraska vine seed grower. A careful perusal of each will disclose radically different opinions as to why the Rocky Ford melon has attained its present fame and our readers must judge for themselves wherein lies the true secret of success. The statements of each writer must stand or fall on their own merits. Mr. Morrill's statement is given herewith; that of Mr. Emerson will appear in a subsequent issue.—ED.

I.—AN INTERVIEW WITH MR. MORRILL.

"The seedsmen are much interested, with the truckers of the country, in the new musk melon known as Rocky Ford. You as an experienced melon grower for the Chicago market should be able to give us some explanation of its phenomenal success. Do you consider it a distinct variety, or does its success in your opinion depend on other causes?"

"In the first place, I do not find it to be a new variety at all. My information and experiments show it to be a good strain of our old Netted Gem, partly oval and partly round, but mostly running to the oval type. The local conditions seem to be entirely responsible for its uniform high quality as it is simply nothing more or less than the Gem grown to perfection. I have tested seed grown at Rocky Ford and planted in Michigan, and find it to be identical with the strain already grown by the Michigan growers. In fact I am reliably informed that a large amount of seed has been sold to Rocky Ford growers from seed selected on my own farm within the last three years. In 1897 seed was brought from Rocky Ford to Alton, Ill., and proved of no better quality than home grown seed of the Gem planted in the same field, both appearing to be identical and inferior in quality. If it were true that this melon is a distinct variety, it should show such merit when grown elsewhere from Colorado seed. My information is that the locality known as Rocky Ford has a soil admirably suited to the melon. It has a perfect climate, dry and sunny, and the growers being provided with means of irrigation, and having acquired a good knowledge of the business, the conditions are nearly ideal for producing a first-class melon. I am also told that the soil is of a loess character similar to that of the Missouri hills, and is a mixture of sand and red clay, having some shale admixture, and probably of volcanic origin, although this is entirely a matter of information. It is said that a difference of fifty or sixty miles from this favored locality in Colorado produces a melon considerably inferior to that known as the Rocky Ford type. Another element which contributes to the success of these growers is the dry climate, which is not favorable to the propagation or spread of fungus troubles and the vine grows to perfection, holding a healthy active foliage to the end of the ripening period and thereby insuring a perfect finish in quality—a condition not found in any other melon-growing region with which I am familiar."

"What are the soil conditions conducive to growing perfect melons?"

"A light sandy or gravelly soil of fair fertility, high in potash and phosphoric acid, without excess of nitrogen, extremely nitrogenic soil growing a large melon of rather inferior quality."

"Do the conditions you have described account fully for the uniform sweetness of these melons?"

"Yes, I think so, and I think they would hold good in any locality, from the fact that Michigan produces a melon fully equal to the Rocky Ford when the season conditions are favorable. In fact, in 1898 the melon vines of Michigan were free from fungus troubles and the Gem melons shipped to the Chicago market were pronounced equal or superior to the Rocky Ford."

"In what season did the sale of this melon first become important in eastern markets?"

"This melon was known to a few dealers and growers in 1896 but came into prominent notice as a market melon in 1897, when it captured the best trade in many of our eastern cities, and was offered only in limited quantities. In 1898 it was offered much more liberally in the large cities but did not hold the relatively high price which it did in 1897. The conditions in 1897 were especially unfavorable for melon growing in the middle states, their quality being generally unfavorable, while the Colorado melon appeared upon the market with uniform high quality and captured the best trade right from the start and realized very high prices. They came upon the market in 1898 in much larger quantities with the reputation of 1897 to introduce them. In 1898 the melons grown in the middle states, having much more favorable conditions than in 1897, were of uniformly good quality and the difference in price between the two disappeared. In fact our home grown melons, Netted Gem and Osage, held their quality throughout the season and sold equally well with the Rocky Ford."

"Why do Michigan melons and those from other localities vary in quality from season to season, and why do they deteriorate during the season?"

"This is a matter understood by nearly all melon growers and is simply a question of retaining a healthy foliage, plenty of moisture without excess and sufficient fertility to maintain a crop and vigorous, healthful vines to the end of the ripening period. When conditions are unfavorable a fungus growth known as 'blight' attacks both melon and cucumber vines, beginning at the center of the hill and spreading outward, causing a lack of perfect nutrition, or assimilation of the sap, and the melon having made its growth will probably have the appearance of a good melon but the perfect finish is lacking from the above named cause. We find that we have no trouble in maturing an entire crop of perfect melons if we can keep the foliage healthy to the end of the season."

"What further conditions have a bearing on the general question of uniformity in this melon?"

"Freight rates cut an important figure in this proposition. The shippers to distant markets soon learn that it only pays to ship the best; consequently they assort much more carefully than growers who sell in nearby markets. Were it otherwise their reputation and prices would soon be gone and their profits consumed in freight rates. Another point which seems to be in favor of these Colorado growers is the fact that they have an organized association, having competent management, and these ideas of careful sorting and correct marketing are enforced upon them. It is the same condition which has given California fruits their reputation for reliability.

"It is now eight years since you perfected the Osage; what can you say of this melon now?"

"For this latitude when kept pure, the Osage is in my estimation still far the best melon grown. The largest and best restaurants in Chicago use this variety almost exclusively, and it is served on the leading hotel tables under its own

name. Carelessness in growing has worked some injury to this variety, as we see many badly mixed lots on the market. Where pure and grown to average weight of five or six pounds, it certainly has no superior."

"Please name in their order the three best selling melons for the Chicago market."

"The first and second places are occupied by the Osage and Netted Gem, with honors about equally divided. The third would be occupied by the old Hackensack. If for home use, I would add the Petoskey or Paul Rose to the list, which as it becomes known will easily command a leading place on the market."

Montreal.

The eleventh annual chrysanthemum show of the Montreal Gardeners' and Florists' Club is now a thing of the past. The following is a complete list of the prize winners:

A. Pinoteau, city gardener, received first for a group of chrysanthemums and foliage plants on thirty-five feet of space and first for group of chrysanthemums only on thirty-five feet of space.

George Pascoe, gardener to Robt. Reford, first for six specimen plants (winning Strathcona cup). First for six Primula Sinensis, third for twelve specimen blooms, third for three blooms white, first for three blooms red.

C. A. Smith, gardener to T. A. Dawes, second for six specimen plants, first for six plants in 6-inch pots, first for twelve plants in 5-inch pots, first for six solanums and second for three specimen blooms, white.

W. Harobin, gardener to R. S. Reid, second for twelve plants in 5 inch pots, second for specimen tree fern, first for six palms and first for vase of chrysanthemums.

Joseph Bennett, first for one hundred mixed ferns in 3 inch pots, first for fifty ferns in 4 inch pots, first for twenty-five ferns in 5 inch pots, first for twelve Bride roses, first for twelve Bridesmaid, first for twelve Morgan, second for twelve Meteor, first for twelve American Beauty, first for twenty-five white carnations, special prize for new red carnation, a sport from Mrs. Bradt; first for twenty-five blooms light pink with Daybreak, first for twenty-five Scott, first for specimen Nephrolepis exaltata.

Fred. Bennett, gardener to Robt. McKay, first for three specimen ferns, second for specimen fern, first for specimen hanging fern, first for three specimen palms, first for specimen palm, second for six solanums and first for two pots of callas.

Thos. McHugh, gardener to Forest and Stream Club, second for twelve specimen blooms, first for six blooms distinct varieties, first for three blooms white, first for three blooms pink and second for vase of chrysanthemums.

W. J. Wilshire, gardener to R. B Angus, first for twelve specimen blooms, second for six blooms, first for the largest bloom in the show with a monster bloom of Madam Carnot, first for specimen tree fern, first for six orchids, first for three orchids, first for one orchid, second for hanging fern, second for three palms.

John Stenning, gardener to D. Yuile, first for specimen epiphyllum.

H. Phillips, second for specimen palm.

Walter Wilshire first for basket of flowers, second for twelve Bride roses, second from twelve Bridesmaid, first for twelve Meteor, certificate of merit for his bunch of seedling carnations and third for vase of chrysanthemums.

The judges on the different classes were: Groups and chrysanthemum plants, J. Bennett and T. McHugh; miscellaneous plants, John Doyle and J. Eddy; cut chrysanthemums, Geo. Copeland and Geo. Robinson; roses and carnations, A. C. Wilshire and C. A. Smith; made up work and decorations, James McKenna.

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124 Southwark St., LONDON, S. E.

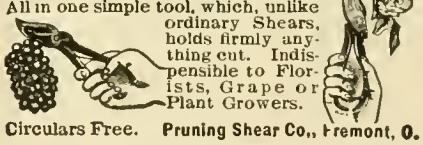
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GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
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STECHER LITHOGRAPHIC CO.,
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Auratum AND
Speciosum Lily Bulbs.
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Seeds and plants should offer our Shears. Close rates. Free Electros.
Kelly's Pruning Shears,
Flower Gatherer and Grape Picker.
All in one simple tool, which, unlike ordinary Shears, holds firmly anything cut. Indispensible to Florists, Grape or Plant Growers.

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The best size and finest stock imported. $10.00 per 1000. Special prices for large ots.
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Hercules Ventilated Barrels are RIGHT for Shipping any Product requiring venlilation.
We sell thousands to large shippers of produce and onion sets. The Hercules is the only barrel which can be shipped knock-down and does not require a cooper to set them up. One man can set up 75 to 100 Hercules barrels per day. Every shipper can be his own cooper and **save money.** We ship the barrels knock-down, with heads and hoops complete and ready to be set up. Fourth-class rates apply in less than car lots.
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Write for sample barrel and prices.
HERCULES WOODENWARE CO.
288 W. 20th Place, CHICAGO.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

UECKE & STILSON is the name of a new nursery firm at Corwith, Iowa.

A NEW nursery is to be established at Hartford City, Ind., by a Mr. Alexander.

F. J. MANAHAN, the landscapist, is not connected with the Lake Geneva Floral Company.

LA MESA, CAL.—Guy P. Hawley, who had extensive horticultural interests here, died at El Cajon, October 28.

L. G. BRAGG & Co., Kalamazoo, Mich., have enjoyed a very fine nursery trade this season.

HARRY BALSLEY, park commissioner at Detroit, has asked his city council for $20,000 for new greenhouses at Belle Isle Park.

A TWELVE THOUSAND tree orchard is shortly to be planted by Wm. R. Keefer at Keefer's P. O., Franklin county, Pennsylvania.

AFTER a residence of thirty years at Bement, Ill., Frank H. Smith, the one armed nurseryman, has gone to Tallapoosa, Ga.

THE Vicksburg Nursery Co., Schoolcraft, Mich., has dissolved, Mr. Fortney going to Dayton, Ohio, where he has bought an undertaking business.

COLUMBIA, MO.—The forty-first annual meeting of the Missouri State Horticultural Society will be held here December 6-8. A strong programme has been prepared.

NEWPORT, R. I.—James McLeish, president of the Newport Horticultural Society, has six houses of grapes nearly ready for market. Each house yields an average of 1,500 pounds.

NORMAL, ILL.—During November the nurseries in this vicinity have been rushed in making fall deliveries. The Phœnix Nursery Company is the largest shipper. Business has been very good this season.

T. C. WHITE, treasurer of the Californian Rasin Growers' Association, with sixty packing houses, handling the crops of 2000 growers, has reported the season's receipts up to October 29 to be $1,105,240.

THE Evergreen Nursery Co., Evergreen, Wis., has shipped 12,000 trees from its nursery to a buyer at Hexham, England. The company also has an order for 400 pounds of native tree seed from a firm at Grasstabartz, Germany.

Transplanting Sequoia Gigantea.

ED. AM. FLORIST:—You will much oblige by giving particulars of the best time and way to transplant a specimen of Sequoia gigantea ten feet high, with a spread of eight feet. I have been told that it is next to impossible to move this tree successfully when it has attained any considerable size, and would like to be certain in the matter. A. R. M.
Larchmont, Wash.

The Sequoia gigantea, like its close relative, Taxodium distichum is inclined to make but few roots. Left to themselves both these trees make a few strong descending roots only, and, as with all similar rooting trees, they are hard to transplant. The taxodium, which is the well known deciduous cypress, transplants fairly well, because it is deciduous. The sequoia being evergreen makes it necessary to use more care in its removal than the cypress requires. A sequoia ten feet high with a spread of eight feet, must be a beauty, and it is worth a good deal of care to be successful in its removal. The best way would be to prepare it a year in advance, by root pruning and top pruning it. Dig a trench around it at a distance of two or three feet from the trunk, digging down to a depth of about three feet, cutting off all large roots met with and what may be found by undermining the ball at the bottom. Cut the roots with a sharp knife, with the slant from the underside. Then fill in the trench, with the same soil, if good, or with soil made good by adding manure.

At the same time prune the top in well. This top pruning compensates for that of the roots and at the same time increases the number of twigs, and old planters all aver that a large number of twigs surely indicates numbers of roots, and this I believe to be true. The tree should be treated this way in early spring, then let alone until the following spring or even the August succeeding the following spring, which would be about sixteen months in all, when the chances of a successful transplanting would be very good indeed. Should it be impossible to wait so long, there is nothing to do but prune the top closely, but not lower on a branch than its live foliage, as evergreens of this character do not break fresh buds well from hard wood; get all the roots possible and plant firmly. Early fall is to be preferred for the work.

JOSEPH MEEHAN.

GLEN COVE, N. Y.—Felix G. Mense, who was long superintendent of the C. L. Perkins estate, is now shipping large quantities of fine violets to the New York market.

POLO, ILL.—M. E. Miller's boiler broke down and he had hard work saving his stock. Fortunately many of his best plants were busy taking prizes at near by flower shows.

HARDY SHRUBS
Assorted in 25 Varieties.
My selection $50 per 1000. Descriptive catalogue and price lists for the trade.
SAMUEL C. MOON,
MORRISVILLE, - Bucks Co., PA.
Mention the American Florist.

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This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Annual subscription to cover cost of postage 75 cents.
Address EDITORS OF THE "H. A."
Chilwell Nurseries, - Notts, England.
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FIELD-GROWN ROSES $1 per dozen
80 varieties. Plants 1½ to 3 feet.
Address WM. K. NELSON, Augusta, Ga.

AZALEA INDICA,
12 to 14 inches diameter. Fine, shapely, well-budded plants of the best forcing varieties. Prices, $4.25 per 10; $37.50 per 100.

Hydrangeas ...OTAKSA RED BRANCHED and THOS. HOGG
Strong, field grown plants.
With 3 to 5 crowns . . . $1.00 per 10; $8.00 per 100
" 1 to 3 " 75 " 5.00 "
ASPARAGUS SPRENGERII, $6.00 per 100
Fine, thrifty stuff from deep 2½-inch pots, 6 to 10 inches tall and with 5 to 10 stocks.
FIELD-GROWN HARDY ROSES
Clematis, Ornamental Shrubs and Trees, Pæonies, Herbaceous Plants, Small Fruits, Fruit Trees.
Send for wholesale price list.
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Mention American Florist.

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One Million
Flowering Shrubs; full assortment; all sizes.
Half Million...
Deciduous Trees for street, lawn and avenue planting.
200,000 Vines, Ivies, Clematis, Actinedia and other sorts. Correspondence solicited.
THE WM. H. MOON CO.
MORRISVILLE, PA.

FOR IMMEDIATE DELIVERY!
Amoor Privet and Hardy Lemon—best Hedg Plants.
5,000 Gardenia Florida—pot grown.
5,000 Oranges—dwarf grafted sorts.
15,000 Camphor.
500 Ficus Elastica.
10,000 Latania—4-inch pots.
1,000 Phœnix Rectinata—6-inch pots.
100,000 Cannas—leading sorts, $15.00 per 1000.
10,000 Biota aurea nana.
5,000 Rare Coniferæ.
ROSES—field-grown, on own roots and budded low.
An immense stock of Ornamental and Fruit Trees.
Send for Trade List.
P. J. BERCKMANS CO.,
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HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
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Wholesale Growers, TREES & PLANTS in Full Assortment. TRADE CATALOGUE FREE

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CUT FLOWERS.

For week beginning Monday, Dec. 5th.

ROSES.

Beauties, long, per doz.,	$3.00 to	$4.00
" medium "	2.00 to	3.00
" short "	1.00 to	2.00
	Per 100.	
Brides, Maids, Meteor,	$3.00 to	$5.00
Kaiserin, La France....	3.00 to	5.00
Perle, other teas.....	2.00 to	4.00
Roses, our selection.....	3.00	

CARNATIONS.

Fancy stock.....	1.50 to	2.00
Ordinary "	.75 to	1.00

CHRYSANTHEMUMS.

Fancy varieties.....	15.00 to	25.00
Medium stock.....	8.00 to	12.00
Ordinary stock.....	4.00 to	6.00

MISCELLANEOUS STOCK.

Valley.....	4.00 to	5.00
Violets.....	.75 to	1.50
Orchids, Cattleyas.....doz.,		6.00
" Cypripediums..... "		2.00
" assorted box.....		10.00

Above prices subject to change without notice.

DECORATIVE STOCK.

Wild Smilax, parlor brand.....	$3.75
" " medium case.....	5.50
" " large "	8.00
Asparagus Plumosus.....doz.,	5.00
" " string,	.50
Smilax.....per doz,	$1.00 to 1.50
Adiantum Ferns...per 100,	75c to 1.00
Common " ... "	.15
" " ... " 1000	1.50
Galax Leaves..... " 1000,	1.00
Farleyense Fronds.....doz.,	1.00

We always have good stock of above on hand and can fill orders promptly.

CYCLAMEN PLANTS.

Plants from our stock were awarded First Premium at Chicago Show against five competitors. Positively none better.

Now ready for shipping direct from greenhouses.

1000, 5-in. pots at..... $25.00 per 100
500, 6 " 50.00 "

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Order now and secure best stock shipped at proper time.

HOLLY, GREEN & MISTLETOE.

We will meet quotations of any reputable western house.

We have fresh stock of all the following goods:

Cape Flowers, Immortelles,
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Vases, Ribbons, Doves,
Wheat Sheaves, Tin Fo , Toothpicks,
Viole Foil, Baskets, Bouquet Pins,
Chenille, Cycas Leaves

and everything used by florists.

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SUNDAYS AND HOLIDAYS
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THE Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

The "GARDENERS' CHRONICLE" has been FOR OVER FIFTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, much of the information furnished is of such general and permanent value, that the 'GARDENERS' CHRONICLE" is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

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Best quality at lowest rates. We gather our our greens and bring by our own boat direct. Also CHRISTMAS TREES.

Northern Michigan Evergreen Nursery,
SCHOONER MARY COLLINS, H. Schuneman, Capt. | S. W. Cor. Clark St. Bridge, CHICAGO.

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For Catalogue Purposes.

WE have a large assortment of strictly high-class halftones of which we can supply electros suitable for catalogue illustration. If you need anything in this way, state your requirements and we will submit proofs of the illustrations in stock. Our collection includes the leading

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FLORISTS' FLOWERS
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Also PARK AND GARDEN SCENERY.

PRICE FOR CASH ONLY 15 CENTS PER SQUARE INCH.

THE AMERICAN FLORIST CO.
.....324 Dearborn Street, CHICAGO, ILL.

GRANDIFLORA. CAPE JESSAMINE. GARDENIA FORTUNEI.

Bloom half again larger than G. Florida. Northern florists retailing at 75c to $1.00 each. Nothing better for Christmas Decoration.
18 to 24 inch..... per 10, $1.00; per 100, $7.50.
2½ to 4 feet..... " $1.25; " $9.00.

C. W. BENSON, Alvin, Texas.

HOLLY

Very best selected, well berried Holly.
Per Case of 50 lbs. net.....$3.50
" " 25 lbs. net..... 2.00

Sample and special express rates furnished upon application.

Dealers in Decorative Evergreens.

LEE, WATKINS & CO.,
EVERGREEN, ALA.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

THE florists of Richmond, Ind., are talking of forming a bowling club. Stranger things have happened than would be the return of that Evans cup to the Hoosier state.

With Chicagoans.

But four bowlers rolled three games at the last session of the Chicago Bowling Club. Captain J. S. Wilson was "the whole thing," making both the high score, 197, and the best average, but E. F. Winterson was only one-third of a point behind on the average.

Bowling at Detroit.

After only three games of practice the following score seems quite creditable.

Name.	1st.	2d.	3d.	4th.	Av.
Dunn	133	150	166	162	153
Breitmeyer	124	150	152	156	148
Holznagle	133	131	165	137	142
Rackham	138	125	136	99	123
Ferguson			94	136	115
Watson	92	100	118	134	111
Coryell	124	116	73	118	108
Flowerday	111	118	72	118	105
Pickworth	107	80	108	124	103
Dilger	83	78	119	121	100
Beard	94	120	92	84	98

R. F.

Shooting in Philadelphia.

The Gun Club held its regular monthly shoot for the president's medal on November 22, and the following scores were made. Mr. Engle was winner with thirty-four targets broken; Anderson was second with forty and Harris third with thirty-seven. The gunners have a curious method of handicapping, a sort of progressive scale which compels the scratch men to be on edge all the time or else fall behind in the scoring.

Name.	Unknown angles.	Known angles.	Total.
Smith	21	17	38
Harris	20	17	37
Engle	19	15	34
Jones	14	15	29
Styer	17	13	30
Bell	19	18	37
Westcott	10	13	23
Ball	15	16	31
Anderson	19	21	40
Cartledge	24	23	47

In a team match at known angles, twenty-five targets, Anderson's team won: Anderson, 21; Bell, 24; Allen, 19, Harris, 19—total, 83. Cartledge's team: Cartledge, 20; Engle, 17; Ball, 20; Jones, 10—total, 67. K.

Cleveland Bowling.

The meeting of last Monday night was fairly attended and the bowling all around was pretty good, the scores of H. Kunz and A. Graham being the highest in single games. They made 184 and 174 respectively. The team scores were not extraordinary but the games were very even and hotly contested, the winners of the first game having but fourteen pins the better of it. The "Cushmans" also took the second game from the "Pentecosts" by a score of 573 to 561. The third game, however, went to the other side, also by a rather close score. For averages Cushman led with 143, but was closely pushed by Kunz with 141. There ought to be a greater effort on the part of all the florists to get out and bowl, as the team that goes to Detroit will be chosen by the highest scores made. We ought to be able to make it warm for somebody up the lakes but to do it we have got to have the bowlers.

A.

New York.

The attendance on last Monday evening at the alleys was very slim but it comprised some of the cream of the craft and they had a big time. The treasurer being absent, collections were made on the "go as you please" plan, and if that gentleman finds a deficiency recorded against that particular occasion, when he next appears, it will at least be a satisfaction to him to know that nobody suffered from either hunger or thirst during his absence.

Philadelphia Pastimes.

It was Philadelphia against Omaha on the alleys last Monday night; that is, the stay-at-homes versus the team that went to Omaha. A couple of weeks ago the difference between the teams at the end of three match games was 13 pins in favor of the Omahas. Monday night they gained 113 additional points, making the difference 126. Smith was again high man. The following is the score:

OMAHA.

Name.	1st.	2d.	3d.	Total.
Brown	146	138	172	456
Westcott	158	163	155	476
Craig	102	134	113	349
Habermehl	160	128	142	430
Smith	133	179	174	486
Longinotte	134	177	158	469
Team	833	919	914	2666

PHILADELPHIA.

Name.	1st.	2d.	3d.	Total.
Connor	95	162	133	390
Anderson	171	136	165	472
Walker	125	179	129	433
Moss	138	125	159	422
Baker	142	140	102	384
Kift	173	150	127	452
Team	844	892	815	2553

K.

Pittsburg.

BUSINESS NOT UP TO LAST YEAR'S RECORD. —ROSES AND CARNATIONS SCARCE.— JOTTINGS.

Business has been fairly good but not up to former Thanksgiving trade. The stock of flowers was good with the exception of roses and carnations; these were somewhat scarce and prices stiffened a little.

The Pittsburg Cut Flower Company report a good business. The retailers are alive to the advantages offered.

The new venture of the market in the East End has, for the florists, been fairly successful.

Geo. W. Duff, North Highland avenue, has closed his place and will take a rest.

Charles Siebrecht, of Siebrecht & Son, New York, was a visitor this week.

REGIA.

St. Louis.

GOOD THANKSGIVING TRADE.— PRICES SHARPLY ADVANCED FOR THE OCCASION. —NOTES.

There was a good supply of all kinds for Thanksgiving, but prices were advanced sharply for that occasion and report has it that some of the wholesalers had quite a lot of stock left on their hands. California violets sold for $1 per hundred for Thanksgiving, but have dropped back to 50 cents. Carnations have dropped from 2 cents back to 1½, fancies selling at 2 cents to 3 cents. Roses are much more plentiful and of very good quality. Romans and narcissi have made their appearance. Lily of the valley is being held at 4 and 5 cents; those having a call for anything over 100 get it either from Chicago or Cincinnati.

Judging from appearances stock is to be more plentiful from now on than it was last season, and the indications are that prices will be considerably lower after the holidays than they were last year.

Show matters are being straightened out rapidly and inside of a week the committee will know just where it stands.

R. F. T.

Northampton, Mass.

Thanksgiving day opened in old fashioned style with rain and snow which made the work of delivery decidedly unpleasant and probably diminished the sum total of receipts, but it was a busy day after all and most of the stock was cleaned up before night, only a few chrysanthemums being left. Violets were in great demand and the supply gave out early. Roses and carnations were also in good demand and only a few culls were left. As compared with last year the increase was about ten per cent in total sales.

G. W. THORNILEY.

PATERSON, N. J.—At the meeting of the Florists' Club on November 16 a resolution was unanimously adopted condemning the methods of "crape chasers," who have brought the business into disrepute in this city.

WE
SUPPLY FLORISTS
LARGE OR SMALL,
NEAR OR REMOTE,
with all indispensable requisites for the complete outfit of a first-class modern Florist's Retail Business.
SEND NOW FOR OUR
NEW PRICE LIST.....
IT COSTS YOU NOTHING.
It will give you close prices on **Baskets, Jardinieres, Ferneries, Sheaves, Doves, Letters, Immortelles, Dried** and **Artificial Flowers** and **Lace Handkerchiefs** in Violet, Lavender and White, for Violets.
THE LARGEST SUPPLY HOUSE
IN AMERICA.
H. Bayersdorfer & Co.
50, 52, 54, 56 N. Fourth St.,
PHILADELPHIA, PA.

MANETTI STOCKS

are generally employed for

GRAFTED ROSES

and after Dec. 1

We shall be in position to fill orders for imported Manetti stocks of the best quality.

The price is $10 per 1000.

500 at 1000 rate.

Write us now, stating your requirements.....

E. G. HILL & CO.

.....RICHMOND, IND.

PLANTS FOR DECORATORS.

The season for plant decorations is at hand and any of these will be a useful addition to stock, being bright, fine colored elegant specimens. Packed in pots, by freight, if desired.

	per dozen
ARECA LUTESCENS, 8-in. pots, 4 to 5 ft...	$18.00 to $24.00
ARECA LUTESCENS, 6-in. pots, 3 to 4 ft..	12.00
OREODOXIA REGIA, light graceful, 5 to 6 feet	18.00
NEPHROLEPIS BOSTONIENSIS, 8-in. pans, 3 to 4 ft. over	18 00
ADIANTUM TENERUM, 8-in. pans	9.00

CASH WITH ORDER.

JOHN H. LEY,

Good Hope, - - Washington, D. C.

PALM Seed.

FRESH ON HAND

	100	1000	3000
Kentia Belmoreana	$1.00	$6.50	$15.00

J. L. SCHILLER,

404 East 34th Street, NEW YORK CITY.

Pteris Tremula Ferns

Strong plants, ready to shift to 4 and 5 inch, from 2¼-inch pots, $3.50 per 100; $30.00 per 1000.

R. WITTERSTAETTER,

SEDAMSVILLE, OHIO.

ADIANTUM CUNEATUM...

Fine pot-bound stock, ready for a shift.

2½-inch, strong	$4.00	per 100
3 " "	6.00	"
4 " "	12 00	"
5 " "	20 00	"

See Chrysanthemum Number for other stock.

Cash please. CARL HAGENBURGER, W. Mentor, O.

ROBT. CRAIG & SON

Roses, Palms

and Novelties in Decorative Plants.

Market and 49th Street, PHILADELPHIA PA.

When writing mention the American Florist.

CARNATIONS

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Good VALLEY is scarce—of the ordinary there's an abundance!

HOW'S THIS?

VALLEY PIPS. Watson's Best Berlin. $12.00 per 1000. These are the very finest selection of 3-year pips, all large and uniform in size and carefully packed. Quality unsurpassed. I will sell in unbroken cases (2500) at $11.50 per 1000, cash.

SPIRÆA JAPONICA; large clumps, well budded. $4.00 per 100.

SPIRÆA ASTILBOIDES FLORIBUNDA, extra fine clumps. $5.50 per 100.

TOBACCO STEMS. (Absolutely fresh.) $9.00 per ton. Half ton lots at same rate; baled and delivered to depot.

WATSON'S BONE MEAL—Strictly Pure—(for florists). $30.00 per ton. Half ton lots at same rates; f. o. b. Phila.

George C. Watson, PHILADELPHIA, PA.

....Juniper below Walnut.

CHRYSANTHEMUM STOCK PLANTS.

1898 NOVELTIES, Doz., $3; 100, $20.
Wm. H. Chadwick, Mrs. C. H. Peirce, Snow Queen, Madeline Pratt, Yellow Fellow, Yellow Mrs. Jerome Jones, Autumn Glory, Mrs. Arthur J. Caton and Thornden, at 50c. each.

NEWER SORTS Doz., $2; 100, $15.
Frank Hardy, Defender, Mrs. C. H. Weeks, Westero King, Geo. S. Kalb, Midge

STANDARD KINDS, Per Dozen, $1.50; Per 100, $10.00.

Liberty	Mrs. Martin A. Ryerson	Ivory	Miss Agnes L. Dalskov
Mayflower	Mrs. J. G. Whilldin	Golden Trophy	Mrs. S. T. Murdock
Eugene Dailledouze	Marion Henderson	Major Bonnaffon	Lady Fitzwygram
Philadelphia	Yanoma	Modesto	Mrs. W. H. Rand
Golden Wedding	The Times	Mrs. H. Robinson	Chas. Davis
Evangeline	Jeannie Falconer	L'Amethyst	Nivens
E. M. Bigelow	Marion Cleveland	Joanna	Geo. W. Childs.
Viviand-Morel	Mrs. Jerome Jones	Glory of the Pacific	The Queen
Gretchen Buettner	Mrs. Perrin	Mme. F. Bergmann	

VAUGHAN'S SEED STORE,

CHICAGO. GREENHOUSES, WESTERN SPRINGS, ILL. NEW YORK.

ASPARAGUS SPRENGERI.

50,000 plants in 2½-inch pots, $5.00 per 100, Xpress; 24 for $1.50 by mail.....

Specimens for 8-inch pots, $6 per 12.

A. BLANC & CO.

PHILADELPHIA.

CHRYSANTHEMUMS. STOCK PLANTS.

Rose Owen	G. F. Atkinson
Golden Trophy	Maud Dean
Lady Fitzwygram	Mrs R. D. Douglas
Yellow Mocarch	Western King
Riverside	Evangeline
Glory of Pacific	Mrs H. Wright
J. H. Woodford	Dorothy Devens
Major Bonnaffoo	Mrs. R Crawford
Mrs. W. P. Rayoor	at $1 2) per doz.

Also Mrs. H. Weeks, Miss Gladys Vanderbilt, Maud Adams and J. M. Gifford, at $2 00 per dozen.

Also Varieties Introduced in 1898.

Mrs. C. H. Peirce	Snow Queen
Mrs. O. P. Bassett	Blackhawk
Yellow Fellow	Australian Gold
Pennsylvania	Solar Queen
Frank Hardy	Autumn Glory
Boundless Snow	Chempwee
Spottswood	T. H. Spaulding
Minnewaska	Madeline Pratt
Merry Christmas	at 30c. each, $3 00 per doz.

THE COTTAGE GARDENS, Queens, N. Y.

CARNATIONS

F. DORNER & SONS CO.,

La Fayette, Ind.

CARNATIONS.

All the new and leading varieties. Contracts for rooted cuttings made now. Send for prices, stating what you want.

GEO. HANCOCK & SON, Grand Haven, Mich.

AZALEA INDICA.

Superb stock: to clear out a later consignment, we offer:

8-10-inch	per dozen,	$3.50;	per 100,	$25 00
10-12-inch	"	4 25;	"	32.00
12-14 "	"	5 50;	"	42.00
14-16 "	"	6 50;	"	52 00

SEND ORDERS QUICK.

Lil. Auretum, Rubrum, Album ready.

Special offer Lil. Longiflorum, 7-9-in., per 100, $3 net.

H. H. BERGER & CO., 47 Barclay Street, New York.

(ESTABLISHED 1878.)

Carnations! FIELD-GROWN.

All sold except	500 Lizzie McGowan
500 Wm. Scott	100 Morello and
300 Emily Pierson	100 Goldfinch

If there is anything here you want, write me and get some low prices on this lot. Address

Chas. Chadwick, Lock Box II, Grand Rapids, Mich.

Mention the American Florist.

Would you like some early ROOTED CUTTINGS of.....

Perles, Wootton or Kaiserins

for next spring and summer bloom? Will have them ready for shipment about Dec. 15th. Write for prices to

GEO. A. KUHL, - Pekin, Ill.

LONG DISTANCE 'PHONE, 14.

Council Bluffs, Ia.

H. H. Frey, the senior partner in the firm of Frey & Kastner, 1250 East Pierce street, died at St. Bernard's Hospital, November 22, as the result of a scalding received the day previous while working about the greenhouse boilers in company with an employe named Edw. Williams. From the account given by the latter it seems that the two were endeavoring to open a valve to direct the steam to another channel but that the valve stuck and Frey struck it with a hammer to cause it to loosen. Without warning the valve burst, permitting the steam to rush forth and envelope the unfortunate men. Williams escaped with some severe burns, but Mr. Frey was so terribly scalded that he lived but a few hours. The physicians stated that fully one-fourth the cuticle of his entire body was destroyed.

H. H. Frey was the son of C. H. Frey, the leading florist of Lincoln, Neb., with whom he was in business prior to a year ago when he purchased the junior interest in the firm of McPherson & Reed, Mr. Kastner soon joining him in taking over J. R. McPherson's share in the establishment, which is the largest here, with the exception of that of J. F. Wilcox. This fall Frey & Kastner made a considerable addition to their greenhouses and opened a well appointed store at 4 Perle street. They faced bright business prospects. Mr. Frey's remains were taken to Lincoln for burial. He leaves a young wife.

PALMS and FERNS



The Largest Stock of PLANTS IN THE WEST

GEO Wittbold 1708 N. HALSTED ST CHICAGO

'MUMS Stock Plants.

For varieties see last issue.
Send for price list.

AMERICAN ROSE CO.,
Washington. D. C.

Please mention American Florist.

Azalea Indica, full of bud, 10 to 12-inch, $3 50 per doz.
" " " 14 to 16-inch, 6 00 "
Cinerarias..... 3-inch, $3.00 per 100
Palms, best assortment, 5 & 6-in. pots.....$7.00 per doz.
New Chrysanthemums, Frank Hardy and Merry Christmas, large clumps.....$1.00 per doz.
Rooted cuttings of same..... $3.00 per 100.
Cyclamen Giganteum, 4-inch.....$10.00 per 100.

WHITTON & SONS, Wholesale Florists,
City and Green Sts., UTICA, N. Y.

Adiantum Farleyense.

FINE PLANTS
In 5-inch pots, at $9.00 per dozen.

EDWIN LONSDALE, Wyndmoor,
Money order office, Sta. H, Philadelphia. Chestnut Hill, PHILADELPHIA.

THE BOSTON FERN From $5 per 100 and $40 per 1000 to $1 each
A SPECIALTY. L. H. FOSTER,
45 King Street, DORCHESTER, MASS.

Delaware HOLLY.

WE have made greater efforts than ever to secure the best Delaware HOLLY, and with our system of reinspecting it before shipping it is sure to give satisfaction.
BOUQUET GREEN, direct from the woods.
We also carry a large stock of
Green Wreathing, Cedar Wreathing, Mistletoe, Holly Wreaths, ETC.
Write us for our quotations before buying elsewhere.
FLORISTS' SUPPLIES. FRESH CUT FLOWERS.
☞Send postal for our new catalogue of Florists' Supplies.
HOLTON & HUNKEL CO., P. O. BOX 103, Milwaukee, Wis.

Palms...

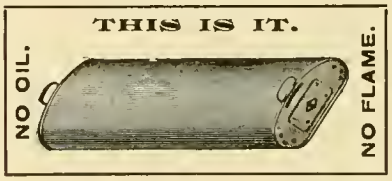
ARECA LUTESCENS, COCOS WEDDELIANA,
KENTIA BELMOREANA, LATANIA BORBONICA.

For Sizes and Prices, See American Florist of November 19th, page 505.

JOSEPH HEACOCK,
Box 36, WYNCOTE, PA.

When writing mention American Florist.

THIS IS IT.



For descriptive circular and price list, Address

LEHMAN BROS.
Manufacturers
10 Bond Street, NEW YORK.

LEHMAN'S
Wagon Heaters

Will keep your delivery wagons at a temperature that will prevent your plants and flowers freezing in the coldest weather. Positively no smoke, no smell, no gas, no danger. Cost of opering less than one cent per hour. Thoroughly reliable, inexpensive and durable.

OR JAMES W. ERRINGER, GENERAL WESTERN SALES AGENT,
297 Wabash Avenue, CHICAGO.

LONG'S Floral Calendars. Samples for 1899 Are Now Ready

Original, Flowery, Artistic, Handsome and Low Priced.

Something customers will appreciate.

THREE SAMPLES, 12c in stamps. Eight for 20c.

DAN'L B. LONG, Publisher, BUFFALO, N. Y.

PALMS. FERNS. FICUS.
Medal awarded on Palms World's Fair, 1893.
(Established 1884.)
100,000 Strong LATANIA SEEDLINGS, and 25,000 FERNS for dishes, at $3.00 per 100; $25.00 per 1000.
TERMS CASH.
ALBERT FUCHS,
2059-73 N. Halsted St., CHICAGO, ILL.

STRAWBERRIES Under Glass
Ridgeway and Clyde are best for forcing; very productive, large size, and most beautiful color. Strong, healthy plants, 25 cts. per doz. by mail; 60 cts. per 100 by express. C. C. NASH, 3 Rivers, Mich.

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CHICAGO
IS A GUARANTEE OF SATISFACTORY QUALITY.....

Manz makes illustrations for this paper.

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Ludwig Möller-Erfurt. (GERMANY)

CHRISTMAS Comes but Once a Year

and is generally a profitable season for those Florists who prepare for it in advance with a supply of the RIGHT KINDS of decorative material.

We furnish you with the RIGHT KINDS at lowest market prices, and make shipment when you say the word. Owing to scarcity of **Bouquet Green** and **Choice Delaware Holly** we urge early orders.



...REMEMBER...
WE
MAKE SPECIAL PRICES
FOR QUANTITIES.
Write or Wire.

...OUR...
COMPLETE HOLIDAY
CIRCULAR
NOW READY.
Free for the asking. Don't fail to get a copy.

Below we Mention a few of the Important Items in above line.

HOLLY BRANCHES.

OUR XXX DELAWARE—The "Cream" of the Holly. Per barrel, $2.00, per 1-2 case $2.50, case $5.00. Write for rates on large quantities.

HOLLY WREATHS—Made of our XXX Delaware Holly, with plenty of berries; diameter 11 inches. They sell on sight. Dozen $1.75, per 100 $12.00.

HOLLY WREATHS—Made of Southern Holly. Diameter 11 inches. Dozen $1.25, per 100 $7.00. Not to be compared with wreaths made of XXX Delaware Holly, but good stock to meet cheap competition.

EVERGREEN WREATHS—Diameter 11 inches, decorated with scarlet or yellow immortelles. Dozen $1.75, per 100 $11.00.

EVERGREEN WREATHS—Diameter 11 inches. Plain. Dozen $1.50, per 100 $10.00.

EVERGREEN WREATHING—For festooning; fresh stock, well made.
"Light," per 100 yards.....$3.00
"Medium," per 100 yards.....$3.50
"Heavy," per 100 yards.....$5.00
Write for prices on quantities.

GALAX LEAVES—Large size.
Bronze, Green, } Per 1000, 75 cts., per 5000, $3.50.

RATTAN FOR WREATHS—No. 1. Light, pound 20c, 10 pounds $1.80.
No. 2. Heavy, pound 18c, 10 pounds $1.70.

NEEDLE PINES—Carefully selected. Per doz. $2.00, per 100 $20.00.

PALM LEAVES, SABAL—These are much larger than Chamaerops. They do not wilt or curl in decorations; can be tacked up over doors, windows, etc., as taste suggests, making excellent decorative material for parlor or store. Per doz. 40c., per 100 $3.00.

PALM LEAVES, CHAMAEROPS—Used in same manner as sabal leaves. Doz. 30c, per 100 $2.25.

CHAMAEROPS PALM CROWNS—Each containing 5 to 10 leaves. Per crown 25c, per doz. crowns $2.75, per 100 crowns $20.00.

IMMORTELLES—New stock just arrived. If shipped from New York we will allow $1.00 per full case of 125 bunches. Our cases contain 125 bunches.
YELLOW—Bunch, 23c; doz., $2.25; 100, $18.00.
COLORED—Bunch, 25c; doz., $2.50; 100, $20.00.

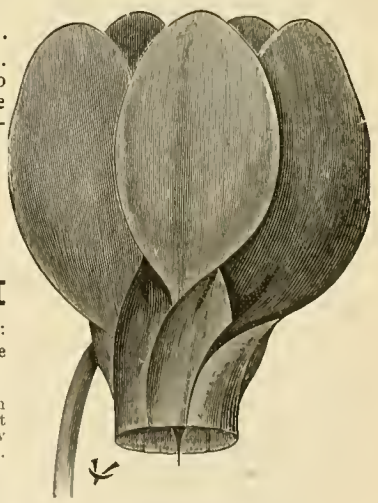
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NEW SEED OF
CYCLAMEN PERSICUM GIGANTEUM

In the following separate colors:
Pure White, Bright Crimson, White with Crimson Eye and Rose (Von Marienthal).

This Cyclamen seed has been grown especially for us by a most conscientious florist, and we know that it will give entire satisfaction.

$5.00 per 1000 seeds; 100 seeds, 75 cents.



NEW CROP OTHER FLOWER SEEDS FOR PRESENT SOWING, SUCH AS STOCKS, VINCA, PETUNIA, LOBELIA, VERBENA, ETC., ALSO ON HAND.....

NOW READY.

LILY OF THE VALLEY, SPIRAEA, DIELYTRA, GLADIOLUS COLVILLEI ALBA AND RUBRA.

CHICAGO, 84-86 Randolph St. **VAUGHAN'S SEED STORE,** **New York,** 14 Barclay Street.

Helpful Reminders.

The last few weeks chrysanthemums have been given the advantage over other stock because they were nearly ready for market. The care of a plant which will not bring returns for six months is not so graciously given as to that which is soon to be in demand. Geraniums, cannas and verbenas have been squeezed so closely as to invite decay, and even palms, ferns and other plants have been too crowded. If you have a certain space devoted to chrysanthemums that are out by November 30 and poinsettias that are out December 25 have something ready to replace them, but it must be stock that need not form its shape and develop until after the required space is available.

If you have 200 stock plants of geraniums under a bench waiting to occupy the space that has been given fifty chrysanthemums, all well and good, but only the geraniums should have been held out of position; the whole stock should not have been crowded indiscriminately because a few were soon to leave; let only those be crowded that are being held in readiness for the particular space.

Your begonias, palms, ferns, acacias, cyclamens, primroses and such plants as develop at various times for the market must not be inconvenienced in the least now; any deficiency in light, soil, water or temperature means deformity and depreciation of value.

Geraniums, fuchsias, bamboos, papyrus, grevilleas, ferns, begonias, dracænas and plants which are semi-dormant now, but which will soon start fresh growth, would best have the old soil shaken out and re-potted. They should be carefully cleaned and pruned into shape.

There is no more desirable flower for retail trade than the pansy. The temperature and air for violets suits them, but the soil should have more sand and manure than violets are given.

Do not water pot plants with a hose now. The man who manages the watering pot should be the first to detect all errors, as he has the best opportunities to see when a plant is in need of any special attention. Almost all insect pests are chargeable to the man who does or should do the watering. C. B. W.

HOLYOKE, MASS.—G. W. Thorniley, gardener at the Northampton Insane Asylum, will read a paper on begonias at the December meeting of the Horticultural Society.

GREENCASTLE, IND.—A. M. Troxell, of Knightstown, has moved to this city and opened a flower store. Mr. Troxell was for four years superintendent of the Soldiers' Orphans Home at Knightstown.

Orchids!

CATTLEYA MENDELII arrived in superb condition. Write for prices at once. Only a limited quantity left.

LAGER & HURRELL, SUMMIT, N. J.

SPECIALTIES IN BEST VARIETIES

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
Prices low. Send for list. VIOLETS.
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REDUCED PRICES FOR

Hyacinths, Tulips,

AND CHINESE SACRED LILIES.

Closing out our Importations at the Following Low Prices:

	Per 100	Per 1000
HYACINTHS, double, colors separate	$3.00	$27.00
" single, " "	3.00	27.00
TULIPS, fine mixed, double	.50	4.50
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CHINESE SACRED LILIES (in baskets of 30 bulbs)	4.50	40.00
HYACINTHS, single white Romans, 12 to 15	2.00	14.00

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ORCHID BLOOMS—L anceps and L. autumnalis, until Dec. 15th, $2.00 per dozen; $12.00 per 100.

BULBS—Milla biflora, Bessera elegans, Cyclobothra flava, Tigridias Pavonia, Conchiflora and Rosea, per 100 $1.50; per 1000 $12. Amaryl is Formosissima and Pancratium "Spider Lily", $2.00 per 100.

CACTI—A collection of 25 different varieties $3.00. 100 Cacti in 6 good varieties, $6 00. Old Man Cactus per dozen $3 00.

ORCHIDS Lælias majalis, albida, anceps and autumnalis, $3 50 per dozen; $25 00 per 100 Odontoglossums Cervantesi, Maculatum, Nebulosum, Rossi, $3.00 per dozen; $20.00 oer 100 Cattleya Citrina, $3 00 per dozen; $20.00 per 100. A sample collection of 20 different varieties, prepaid, $5.00.

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Palmata, b'utiful pink	"	10.00

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5,000 Double white Geraniums, 4 varieties	2¼-in. $1 75
10,000 Geraniums, named, 40 vars., up to date, our selection	2¼-in. 1.75
5,000 Geraniums Mme. Salleroi, 2¼	-in. 2.00
1,000 Velvet Plants, big seller, "	3.00
5,000 Iresines, red and yellow, for canna bordering	2½-in. 1.75
5,000 Heliotropes, 3 fine bl'mers, 2¼	-in. 2 00
5,000 Feverfew Little Gem, extra strong	2¼-in. 1 75
5,000 Begonias, flow'r'g, 16 vars.	2¼-in. 1 75
1,000 " "	3½-in. 2 50
3,000 Ivy Geraniums, mixed	2¼-in. 1 50
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PELARGONIUMS. 15 of the leading varieties, all good kinds. Rooted cuttings $2 100. 2½-in. pots, $4 100.
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Geranium "MARS"

	Per Doz.	Per 100
ROOTED CUTTINGS	$.50	$3.00
2½-INCH POTS	.75	5.00

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XX strong plants, per doz., $3.50; per 100, $27.50
" " for 8-inch pots
per doz., $3.00; per 100, $20.00
Medium size, " 2.00; " 12.00
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Extra fine plants.
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BEGONIAS.

	Per 100	Per 100
Argentea guttata	2-inch, $2.00; 3½ inch	$4.00
Feastii, speculata	2-inch, 2 00;	
Rubra	2-inch. 3.00;	
Bertha Chattesurocher, Robusta	3½-inch,	4.00
De Lesseps, Pres. Carnot	3½-inch,	4.00
Roses—La France	$3.00 per 100; Meteor	2.50
White, Pink and Yellow Rambler	3½-inch	4.00

Full standard list 2½ in., 3½ in and 4 in.

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EXTRA FINE, 12½ cts. per string. ANY QUANTITY.

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Correspondence solicited before you place your orders.....

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Violet Clumps!

Luxonne, $5.00; Admiral Avellon, $4.00; California, $3.00; Russian, $3.00; Swanley White, $4.00.

CANNA CLUMPS. Try some of our pink Cannas.

The Conard & Jones Co., WEST GROVE, PA.

GERANIUMS S. A. Nutt, Marvel and other standard varieties, 2-inch pots, $2.00 per 100.

ASPARAGUS SPRENGERII, strong pl'ts, 2½-in. pots, $6.00 per 100.

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Carnations all sold.

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ROOTED CUTTINGS	$6.00 per 1000
ENGLISH IVY	3.00 per 100
GERANIUMS, 16 var., 2-in. pots	3.00 per 100

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A NO. 1 STOCK.

		Per 100
1000	CINERARIAS 2¼-in.,	$2.00
2000	GERANIUMS Harmine "	1.75
2000	" White Swan "	1.75
2000	" La Favorite "	1.75
3000	" Mme. Salleroi "	2.00
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2000	IVY GERANIUMS, mixed "	1.50
5000	GERANIUMS, named, 40 varieties, our selection "	1.75
2000	BEGONIA Sandersonii "	1.75
1000	" " 3½-in.,	2.50
5000	IRESINES, red and yellow, for canna bordering 2½-in.,	1.75

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THE PAMPAS GROVE NURSERIES,
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ROOTED CUTTINGS. WELL ROOTED.

	Per doz.	Per 100	Per 1000.
Heliotrope, 5 varieties	20c.	$1.00	$8.00
Fuchsias, 6 "	20c.	1 25	
Vincas, major and minor	15c.	.75	
Double Petunias, 10 vars	20c.	1.25	10.00
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Verbenas, 12 vars	15c.	.70	6.00

Mail or Express prepaid.

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THE JENNINGS STRAIN **PANSIES.** SEED. PLANTS.

Finest mixed. Good little plants for cold frames, $4 00 per 1000, express.
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E. B. JENNINGS, L. B. 254, **Southport, Conn.**
Grower of the Finest Pansies.

Baltimore.

MORE FLOWERS THAN BUYERS.—THE GARDENERS' CLUB MEETING.—BINDER CUTS BIG VEINS.

Flowers are plentiful and more than equal to the demand. Violets continue to improve in quality, but not in quantity. Owing to the cloudy weather there is only about one-half of the demand available. Beauties are plentiful, but Bridesmaids are very scarce. Local lily of the valley is not in as yet although retailers have a good demand and are well supplied with northern stock. Chrysanthemums are getting scarce and choice varieties are bringing better prices.

The Gardeners' Club held its regular meeting on November 28 and Thos. C. Stevenson, of Govanstown, gave an interesting description of his methods of growing violets.

Wm. Paul Binder has met with a serious accident, having cut two of the leaders of his left hand. A. R. J.

Buffalo.

EVERY ONE IS SATISFIED WITH THE THANKSGIVING TRADE.—AMERICAN BEAUTIES VERY SCARCE.

Bad weather ushered in a beautiful Thanksgiving Day and trade was all that could have been asked. Inquiries at the various stores elicited the information that each one had all the business he was able to care for. In most cases a large increase over last year was reported.

Roses took an upward shoot the day before Thanksgiving and the qualities, except of Meteor, went the other way. American Beauties were very scarce, the supply not being enough to fill orders. From 25 cents to 35 cents was the price. Carnations and violets are scarce and there is no over-stock of chrysanthemums. W. A.



BRANCH WAREHOUSES:
Kearney and Westside Aves., Jersey City, N. J.
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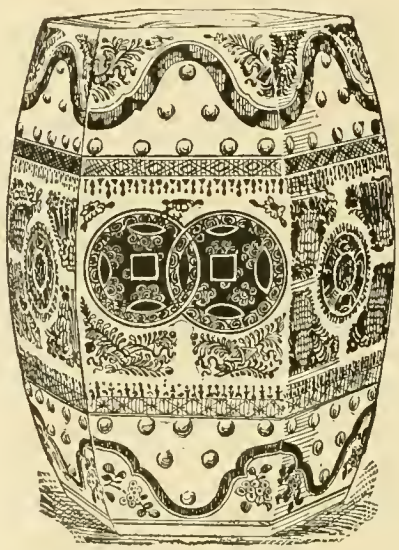
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CANTON CHINA PLANT-POT.


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PLANT POTS AND PEDESTALS.

We invite the attention of intending buyers or those interested in seeing the newest productions of the potter's art to our importations of English, French, German, Japanese and Chinese plant pots or jardinieres selected by our buyers at the places of production in the present season.

They include all sizes and shapes up to the large and very large, from the lowest price up to $150 each.

Some very costly old blue Canton China.

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OUR POTS ARE OF THE BEST QUALITY.
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THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. Send for circular and descriptive price list.

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FLOWER POTS
ALL KINDS.
STANDARD POTS A SPECIALTY
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MANUFACTURERS OF
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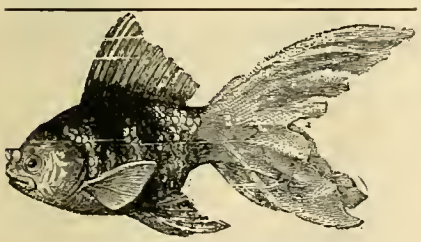
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For all kinds of good stock advertised in
THE AMERICAN FLORIST.

New Rochelle, N. Y.

On Sunday morning, November 27, between ten and eleven o'clock, during the fierce storm, a section of the large dome house of Messrs. Siebrecht & Son at Rose Hill was blown in. This house is about twenty-five feet high and contains principally Australian tree ferns, some of which weigh over half a ton each. Most of the plants were saved by being dragged back into adjoining houses and into that part of the house which was still intact. A number of men were summoned and a temporary wall or partition in the shape of a barricade was put up in quick order. During this time the wind was so high and terrific that some of the men who were up on ladders were in imminent danger of being blown down. All the men, including Mr. Siebrecht, Sr., were severely frozen and suffered a great deal, but the house was put into safe condition. The corner posts, which were of the best 6x6 timbers and bedded into a three feet high brick and Portland cement wall, were twisted like whips, so strong was the gale. The rebuilding of the damaged house was begun on Monday morning and before next Sunday is expected to be completed. The total damage will be in the neighborhood of $1000.

POTTSDAM, N. Y.—Robert Lane, of Gloversville, has leased the Garden street greenhouses of Dr. Best and will conduct a florist business there.

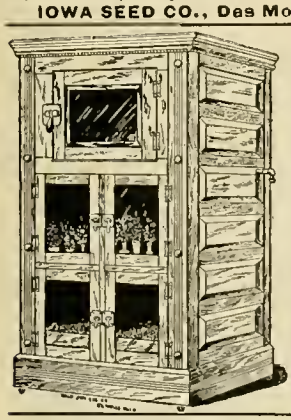
SAUGATUCK, MICH.—At last Saugatuck has a greenhouse, T. W. Leland having converted a building 12x60 into such a structure and filled it with a general stock.



GOLD FISH

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OUR SPECIALTY.
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WRITE FOR LATEST PRICES

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Throw more than half the hard work and worry of caring for your flowers and plants on that quick-acting, safe, sure fertilizer,

The Imperial Plant Food—

save time and trouble and money too. The "Imp" furnishes ideal nourishment from the very start. It produces a luxuriant, vigorous growth. Convincing testimonials, fuller information, and prices, for a postal to

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MAKES FLOWERS FLOURISH And Your Profits Increase.

Walker's Plant Food

is a scientifically prepared fertilizer which every one of your customers should have and will want when you show it to them.

100% Profit for You.

Send for free literature and price lists.

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Sheep Manure!

IN BULK	Per ton
Pulverized, car lots	$8.00
Natural, car lots	4 00
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Pulverized, less than car lots	12.00
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Sulpho-Tobacco Soap

Universal Insecticide

For Flowers, Trees and Animals.

Recommended and in use by the foremost florists and nurserymen in the land.

For Sale at the Seed Stores.

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Bales, 300 to 500 pounds, 70c. per cwt.
Each bale guaranteed fresh and strong.

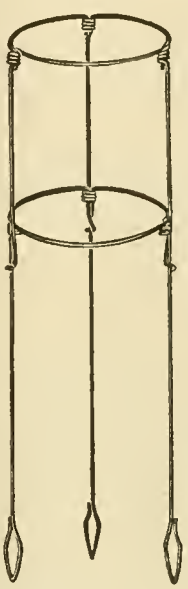
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Very truly yours,
C. W. WARD.

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MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem. Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
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W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as any body will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes
AT LOWEST PRICES.

Write for Prices, Circular and Special Discounts for Early Orders.

The Model Plant Stake Co.,
THERON PARKER, Mgr., Inventor and Patentee,
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IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

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Cleveland.

THANKSGIVING TRADE GOOD.—GREAT SCARCITY OF CARNATIONS.—CHRYSANTHEMUMS NEAR AN END.

There seems to be a quite general opinion that Thanksgiving business was fully as good as in former years, while with some the report is that trade was quite noticeably improved. Good flowers of all kinds sold very well, although the chronic scarcity of carnations was even more evident than at other times.

The chrysanthemum as a factor in the situation is very nearly a thing of the past for the season of 1898. There are of course plenty of late ones still to be had, but they open more slowly now and will be all absorbed from this time without effort. White and yellow are generally the most plentiful. Pink, indeed, is and has been for some little time, rather hard to get.

The advance guard of the French bulbs has already appeared in the shape of Paper White narcissi and a few Roman hyacinths. The latter have not so far been particularly good and have only brought about 3 cents.

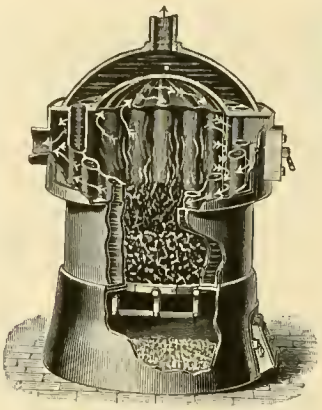
As an instance of the relative scarcity of roses and carnations it may be mentioned that a local grower of both, having an order for a quantity of red carnations had to substitute Meteor roses at the same rate. A.

Nashville, Tenn.

Chrysanthemums were pre-eminently the Thanksgiving day flower and yellow ones were almost at a premium because of the foot ball game. The annual Thanksgiving eve balls, caused a brisk demand for American Beauty and other roses. Violets are scarce but are good in quality. We have no home grown lily of the valley as yet, and hyacinths have not been allowed to come on. American Beauty is off crop here now and stock is being shipped in from Chicago.

Franklin, Tenn., had a very successful chrysanthemum show last week. The exhibitors were entirely amateur but the flowers were really excellent. Curry & Co. and Joy & Son, of this city, sent complimentary boxes of cut flowers. The attendance was excellent, and the visitors carried little note books, taking the names of fine and striking varieties, from which it may be argued that there will be a show there next year with a greater display than ever. M. C. DORRIS.

TORONTO.—Chrysanthemums are still the rage and take precedence over roses, although the latter are in good demand and are not too plentiful. Violets are selling well and some fine Californias are being received. S. P.



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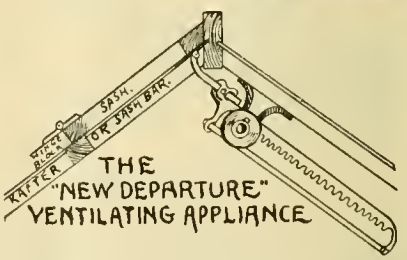
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IMPROMPTU EXHIBITION OF OUTDOOR-GROWN CHRYSANTHEMUMS.—TWO NEW STORES WELL LOCATED.

At the last meeting of our Horticultural Society there was a very creditable informal exhibit of chrysanthemums. D. Nesham brought some very nice flowers of Black Hawk, Modesto, and Mutual Friend. E. Valdejo, among a dozen large and beautiful blooms, had some Jessica, Mrs. Robinson and Marie Anderson which were very fine. He found this latter sort very good. Paul Abele, of Abele & Bros., had also some very nice specimens. Of many varieties, Nemesis and Mayflower were acknowledged to be the best for the first of November. Our chrysanthemums are all outside grown and some sorts which can be found very good in the north may turn out to not be of much value with us. But with all this disadvantage we can raise beautiful flowers, perfect in shape and color; large, heavy blooms, strong stems, deep green foliage and of a keeping quality really astonishing. There seems to be no end to their freshness and durability.

Chas. Eble is to move to a more spacious quarter. He will be located only a few doors from Canal street on Baronne street.

W. Eichling is also going to open a new branch store on Camp street near Common. M. M. L.

Cincinnati.

SATISFACTORY THANKSGIVING TRADE.—STOCK CONDITIONS.—COMMENTS.

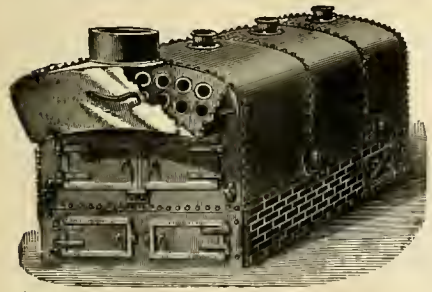
Thanksgiving is past and our retailers as well as wholesale houses report a satisfactory business. The surplus of mid-season chrysanthemums is gone and choice blooms of late varieties bring fairly good prices. Roses are greatly improved and there are enough of them. Violets will be as popular as in former years, judging from present indications. Carnations are none too plentiful and some growers predict a scarcity for some time to come.

J. M. McCullough's Sons and J. Chas. McCullough have already made preparations for their immense Christmas trade.

Saturday, December 10, should see a large attendance at the Florists' Society meeting as there is much important business to be transacted. H. SCHWARZ.

WABASH, IND.—E. F. Overman supplied the roses, carnations and other cut flowers for the recent annual flower show at Logansport. His blooms were good.

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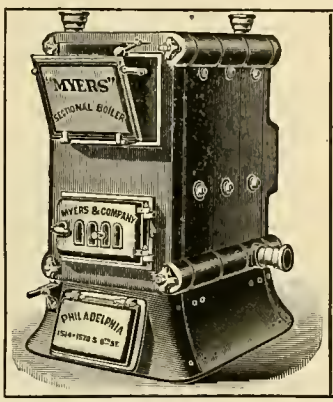
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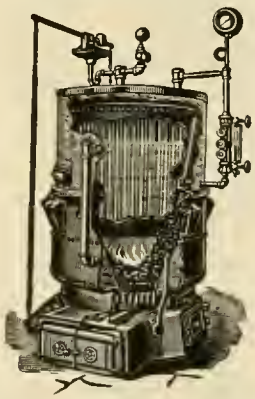
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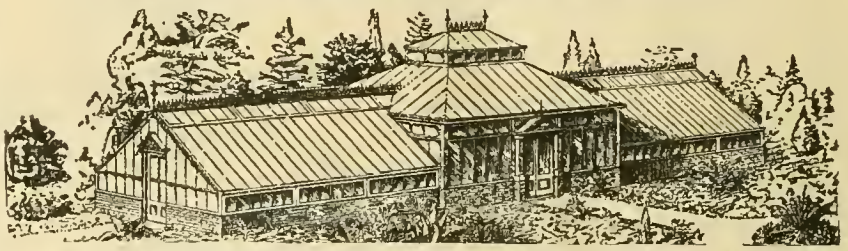
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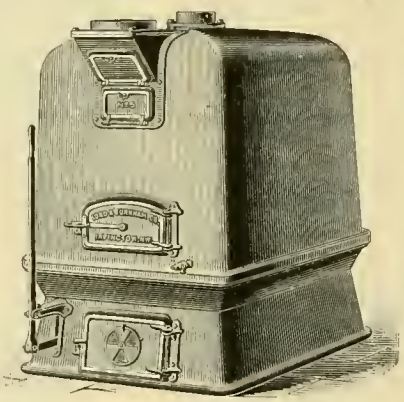
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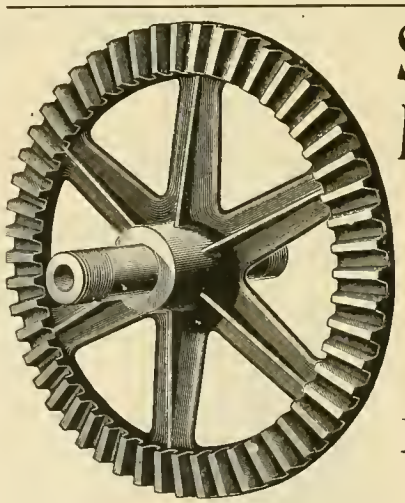
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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fifteenth annual meeting will be held at Detroit, Mich., August, 1899.

OFFICERS-ELECT [to be installed Jan. 1, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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ST. LOUIS, MO.—R. F. Tesson, of Ellison & Tesson, has been confined to his home for several days.

Farmers' Institutes.

[Read before the Florists' Club, of Philadelphia, Tuesday evening, December 6, 1898, by G. C. Watson.]

No doubt many of you are wondering more or less what earthly interest a farmers' institute can have for a nurseryman, seedsman, or florist. Some of you may even not know what a farmers' institute is. I must confess that when I first heard the title I, myself, imagined a farmers' institute to be an establishment for the care of the aged and infirm. It took me quite a while to get it through my head just what the institution stood for, but now that I do know something of the splendid work that is being done through this medium, I feel that every one of us in any way connected with the agricultural interests of the state of Pennsylvania should be interested and should co-operate to help the work along.

Broadly speaking a farmers' institute is a peripatetic agricultural school, and, broadly speaking, we are all farmers. Agriculture includes horticulture, floriculture, arboriculture and several other cultures of lesser importance, and it is not material what particular branch one belongs to, whether it be cereal farming, stock farming, dairy farming, truck farming, or flower farming; in either case, we are all interested in the progress of our state along these lines.

This being granted I crave your attention for a few minutes to state some particulars of the origin and progress of these institutes, and to suggest that the forces at work might be turned to the advantage of your individual specialties, that is, if you are wide awake, and no one can say that our progressive members need any eye openers.

The state of Massachusetts claims the honor of being the first to start these institutes in the year 1859. Michigan and Iowa were very close seconds, in 1861 and 1869. Pennsylvania followed in 1877. From that year until 1895 they were maintained by the State Board of Agriculture, and since the latter date by the Department of Agriculture. The legislature made its first appropriation in aid of the institutes in 1885, amounting to $1,000; advancing it to $3,000 in 1887, $5,000 in 1889, $7,000 in 1891, $9,500 in 1893, and $12,500 in 1897.

In 1885 there were twenty-three days of institutes held—in 1897 this had increased to 385 days. Eighty-two lecturers were on the list for 1897, constituting an array of talent second to none, and of which our great commonwealth may feel justly proud. All of them are men of exceptional ability and specially qualified to furnish the latest scientific facts, each in his particular branch or subject. These lecturers are missionaries employed by the commonwealth to carry the light into every county within her borders. They tell all who will come to listen all that they have found out from years of study and experiment, on the farm, at the experiment station, and in the laboratory. They labor unceasingly in the interests of the agriculturist, studying new problems as they arise, suggesting remedies, teaching new and better methods. They furnish the farmer, the gardener and the florist with a fund of scientific knowledge that is no mean substitute for a course at an agricultural college. And above all, and more than all, they act on our Peter Waybacks and Paul Tumbledowns as a vivifying force—a revival meeting in agriculture—by going among them and stirring them up.

There is nothing so effective as oral teaching. You may print books by the million, but it is another thing to get people to study them. You can throw wagon-loads of information at people and they will go on unheeding. But go to the individual and get him to tell his troubles. Get him interested by showing him some way to overcome one or two of them. Show him where further information is to be gotten, and you have started him in a direction that is going to develop the man, and, with him, his resources. Every community is made up of individuals, and the problems have to be studied from the individual standpoint. The institute missionary goes into every little community in the state, and starts a revival meeting for better farming, better gardening, better roads and brighter homes. He hunts up the most forward and progressive people in each locality and gets them to help him. He gets them to tell their experiences, their successes, their failures, in open meeting; he encourages them to ask questions and does his best to answer them. And all free! No collection is taken up when the congregation is stirred to the proper temperature. The state provides for all that, and it is only costing the commonwealth $12,500 a year to keep these eighty missionaries in the field for 385 days every season! Why, it cost that much recently to build a stucco arch across Broad street for a forty-eight-hours raree show that is already almost forgotten!

There are some things that this great state of Pennsylvania can do, however, that will challenge the admiration of the world, and one of them is to produce a citizen like Professor John Hamilton who can take this $12,500, and keep eighty agricultural missionaries in the field for 385 days with one half of it, and pay

hall rent, light, heat, printing and other local expenses with the other half. It is scarcely believable, but it's a fact. The work that is being done is really beyond price to the state, and it would be cheap at ten times $12,500. He's certainly a wonder, this Professor Hamilton. Our New York friends opened their eyes when the late Colonel Waring showed them how to keep their streets clean. Waring was a "dandy," but expensive. Hamilton's a "Jim Dandy" and he can do more with a dollar than even Wm. J. Bryan or Edward Atkinson I fancy there has been nothing like it since the widow's "cruise of oil." Joking aside, however, let's hope our lawmakers will make it at least $25,000 next time. Even double that amount would be a good investment. If Prof. Hamilton has anything to do with such a sum, won't there be an awakening among the tillers of the soil? There will be a flood of good teaching unparalleled in the history of great floods. Moses striking the rock will not be a circumstance to the Professor with this fifty-thousand-dollar sledge hammer letting loose the floods of learning!

From what I have said, you can form some idea, although this is but a boiled down account of what the farmers institutes—or agricultural revival meetings, as I think they ought to be called—are doing. But I must not impose on your patience too long, and I will only trespass on your time with a few words more to state something about the Philadelphia meeting which takes place on January 17, in Horticultural Hall, and to ask all of you, individually and collectively, to be present on that date, at the morning, afternoon and evening sessions, to help make the day a success and a credit to the Florists' Club and the Horticultural Society, the two organizations that are responsible for inviting the "missionaries" to come here to tell us all they know. And when you come, come primed with questions that you wish answered; questions on soils, fertilizers, insects and fungus diseases. These men have been busy studying all these problems for our benefit, but it will take questions to bring out just the information you want. With all their learning, they are not mind readers, and if you want to know, you must speak up.

At this date the committee has not the full programme made up, but I can announce the following, and due notice will be given of the others:

Enos H. Hess, of State College, Pa., whose subjects are: "Commercial Fertilizers and Their Uses," "Results of Experiments with Commercial Fertilizers, Barnyard Manure and Lime," and "Effects of Lime upon the Soil." J. S Woodward, of Lockport, N. Y., who talks on "Chemicals and Clover in Soil Renovations." "The Leaf; Importance of Keeping it Healthy," and "What Ails Our Orchards? Remedy." John Gould, of Aurora, Ohio, who discusses "New Ideas in Creamery Work and Dairying," "Ten Years Experience with a Silo" and "Economy in Corn Culture."

Several of the following speakers are also expected: Hon. Thomas J. Edge, secretary of agriculture, Prof. John Hamilton, director of institutes; Major Levi Wells, dairy and food commissioner; Dr. H. T. Fernald, economic zoologist; Dr. Leonard Pierson, state veterinarian; Dr. J. T. Rothrock, commissioner of forestry; Geo. G. Hutchinson, dairy and food department.

The committee are arranging to have some local talent to speak on timely and interesting subjects in addition to those I have just mentioned, and will spare no effort to make the day worth your making considerable sacrifice to be present. They want you all to be on hand, and to bring all the farmers, florists, truckers, dairymen, nurserymen, seedsmen and gardeners, with their families and retainers, that you can lay your hands on and induce to come with you. All are very welcome and there will be no admission fee and no collection. And don't forget that there will be three sessions, forenoon, afternoon and evening.



I, Austria; II, Austria, half Parthenope; III, Parthenope

A SPORTIVE CANNA.

Canna Sports.

The editor of *Indian Gardening*, the excellent representative of horticultural interests in Peninsular India, has been good enough to send us the drawing from which the illustration shown here has been taken. It affords an excellent example of that dissociation of previously mixed elements, to which we have often alluded, as one of the principal causes of sports. In the specimen figured of Canna Parthenope, we have on one and the same spike flowers of the yellow Austria, figure I, the yellowish-scarlet Parthenope, III., and parti-colored flowers, II., half belonging to one variety, half to another. One side of the rachis of the spike was green, the other side reddish. The Austria occurred on the green side, the Parthenope on the red side of the stalk.

The flowers were thus arranged:—First pair, one pure Austria, and one-half Austria, half Parthenope; second pair, one dimidiate flower, and one pure Parthenope; third pair, one pure Austria, and one half-and-half. The leaves did not differ from those of Parthenope.—*Gardeners' Chronicle.*

Officers-Elect of the "Pioneer Florists' Club of America."

The Florists' Club of Philadelphia was the first organization of its kind in this country, being founded in 1885. It has the further distinction of being perhaps the most successful florists' club in America. I have pleasure in sending herewith a photograph of the club's officers-elect for 1898-99, and I feel sure the readers of the AMERICAN FLORIST will be pleased and interested in these counterfeit presentiments. A glance at these strong and masterful-looking faces will partly explain the reason for some of the club's remarkable success.

W. K. HARRIS, PRESIDENT.

William K. Harris, the president, is a typical American; tall, sinewy and spare, the symbolical Uncle Sam to the letter. He is well known in the trade generally, having a unique and strong personality which, with all its genuineness, has a dash of the grotesque that immediately arrests the attention of the most casual observer. His appearance in an amateur dramatic performance as "Bardolph" at one of the meetings of the S. A. F. was a never-to-be-forgotten sight, and is commemorated in a fine drawing which now adorns the club room. He is a self-made man—and is not ashamed of his handiwork—having risen to his present commanding position in the trade entirely by his own efforts. This is finely illustrated by the way he holds the gavel in the picture. A fine vein of sentiment runs through his make-up and comes periodically to the surface—usually strongest when limping Winter strikes his tents and Easter, fresh and smiling, reaches the classic precincts of Darby Road, or in midsummer when the S. A. F. puts on its gossamers and goes off somewhere for a halcyon and vociferous time, or in the fall, when the rubber has made his full growth and is ready to be driven to market to help pay the rent. Like another great poet (the late Mr. Tennyson) "the Deacon," as he is now affectionately known to a large clientage, has a keen eye for the dollar, and those who read his advertisements must not suppose that it is the usual kind of poet they are dealing with. Mr. Harris is now serving his second term as president and fills that important office with great credit. He takes keen interest in all that goes on, and it's rare if a day



John Westcott. J. Wm. Colflesh. Wm. K. Harris. Edwin Lonsdale.

OFFICERS-ELECT OF THE PHILADELPHIA FLORISTS' CLUB.

passes without a meeting between him and Mr. Westcott at the club room. The hour is 4 p. m., and whoever is late—well, he treats, that's all.

JOHN WESTCOTT, VICE-PRESIDENT.

John Westcott, the vice-president, is one of the squarest men that Providence ever allowed to adorn a beautiful world for well nigh sixty years. He is still in the prime of vigor, hearty and healthy, and enjoys all the good things of this life as they come along with a zest that is envied by many men only half his age. If there is one thing that distinguishes him more than his squareness or his picturesqueness it is his usefulness. His dynamic force is something wonderful. No labor is too hard or too irksome for him. The spirit of the noble Six Hundred animates his soul, and it is do or die with him at all times. No half-measure will suit John Westcott. Like Charles Bradlaugh, his motto is "Thorough," and he lives up to it. Mr. Westcott was one of the founders of the Florists' Club of Philadelphia, and he has been one of its main bulwarks ever since it started. The club is more to John than church or chapel, more than lodge room or party caucus, and I verily believe that if Mrs. Westcott were not the exceptionally charming lady that she is it would be more to him than wife or weans. That the club has been so successful is largely due to the unique and powerful personality of Mr. Westcott, and everybody hopes he may long be spared to continue his earnest efforts for the advancement of its interests. To quote Law's spirited description:

"There's Westcott, pushing, get-there John,
with steam in wondrous store,
The more he finds there's work to do, he always
works the more,
The King of Dandy Fishermen, the Waretown
Commodore."

In work or play, a rare philosopher, a steadfast friend, a charming companion, good-hearted, generous to a fault, and, as I said before, one of the squarest men that Providence ever planted on His footstool. May his shadow never grow less, and may his tribe increase and multiply.

J. WM. COLFLESH, TREASURER.

When you reflect that Mr. Colflesh was considered by the members of the florists' club to be the only man they unanimously wanted to fill—and fill adequately—the chair left vacant by the late Thomas Cartledge, the most beloved and honored for his uprightness—the reflection will reveal the high place the present treasurer holds in the estimation of his fellow craftsmen for his integrity of character and honest worth. He has a commanding presence and a fine open face that at once commands confidence and respect. Although his beard is tinged with grey of late, he is still youthful at heart, and enjoys a day on the shooting grounds with the other aristocrats, or an evening at the bowling alleys with the other democrats, as well as any one, and he is no "has been" at either game neither! Mr. Colflesh is a native born American, and in conjunction with his next door neighbor, Mr. Harris, he holds the native end up in good shape against the aggressiveness of the Scotch, English and Dutch craftsmen who sometimes imagine they are Robert the Bruce, Queen Victoria and Emperor William all rolled into one, to judge by the way these foreigners try to gobble the good things sometimes.

EDWIN LONSDALE, SECRETARY.

Mr. Lonsdale, "The Brave Old Duke," is so well known to the horticultural trade of both hemispheres, that it is almost superfluous to say anything of him in connection with his present office—one of many he has filled and is filling with credit. I think this photograph is a very good likeness and reflects his genial personality most happily. If I am not mistaken, Edwin was the first secretary of the Philadelphia Florists' Club, and took a most active part in its foundation. He has held many offices since, among others that of president of the S. A. F., and still continues to give his best efforts to the advancement of horticulture wherever he thinks the work will tell. He steals many a precious hour from his own business to devote the same to the general good. Few men, under the circumstances, would do as he has done and is doing. But he has his reward. For, after all, the most precious thing to strain for in this world is the respect and esteem of one's fellowmen, and few men are appreciated for public spirit and work well done in their sphere as is Edwin

Lonsdale. In his serious moments who can be so dignified as he, and in his playful hours who so witty and genial? His is, indeed, a most lovable personality, and I consider it a precious privilege to be counted one of his many friends.

Taking these four men as a whole, I think the Philadelphia Club has good reason to be proud of them; she will be well represented during 1899, and I hope she may be equally fortunate during all the years to come. G. C. WATSON.

Philadelphia, Dec. 6, '98.

CHRYSANTHEMUMS.

WORK OF THE COMMITTEES.

NEW YORK, N. Y.—Hewey A. Molatsch, Brooklyn, N. Y., exhibited J. M. Keller, clear, bright yellow, Japanese; scored commercial scale 87 points.

CHICAGO, ILL.—Nathan Smith & Son, Adrian, Mich., exhibited Stelleta, yellow reflexed Japanese; scored commercial scale 93 points.

ELMER D. SMITH, Secretary.

TWO OF THE NOVELTIES.

Our illustrations show two of the new varieties which were prominent at the recent meetings of the chrysanthemum society's committees. Both were exhibited by John N. May, of Summit, N. J., and their merit is well shown by the rating accorded them by the experts. At Philadelphia, November 5, Mavourneen, pink, scored 85 points commercial scale and 83 points exhibition scale; at Chicago, November 12, 84 points commercial scale. Silver Wedding, white, scored 90 points commercial scale at Boston November 12, and on the same date at Chicago 83 points commercial scale.

CARNATIONS.

CARNATIONS REGISTERED.

The following carnations have been registered under the regulations of the American Carnation Society:

By W. R. Shelmire, Avondale, Pa.—Duke of York.—White, very slightly penciled with light pink; large perfectly formed flowers; stems long and very stiff; does not burst the calyx; plants very bushy, large and healthy; grows strong in the field, comes in bloom early and flowers continuously. Liberty.—Dark pink, rather bordering on red, bright and brilliant; not extra large but of good size and does not burst the calyx; flowers early, freely and continuously; good stem but not so tall in growth as some of the larger kinds; plant vigorous, healthy and bushy. ALBERT M. HERR, Sec'y.

CULTURAL NOTES.

December 10.—Two more weeks and Christmas will be here with all its hustle and bustle. To the grower this means one of the few times in the year when he can depend on selling all his stock at a reasonable profit. Everyone naturally wants as many and as good flowers as possible to meet the demand and it behooves us all to give a little extra attention to the stock. Two applications a week of liquid manure, providing the plants are in condition to make use of it and the soil is not already filled with fertilizers, will help matters somewhat. The gradual increase of the temperature will also assist in bringing out a few extra flowers.

In applying liquid manure it is well to know your variety, as some sorts will not stand an extra amount of feeding. Scott is one that can easily be almost ruined in this way, and there are others that behave in the same manner. I have a pink that was producing what might be called "super-extra" flowers but when we gave the plants a mulching the flowers at once deteriorated and soon were not even good. There is, however, not much danger in giving the plants two or three applications of liquid stimulant between now and Christmas.

The increase of temperature should be gradual, not over 2° each twenty-four hours, until you have the average temperature of the houses 8° or 10° higher than ordinary. I do not really advise this as the proper thing to do, but where there is a heavy crop of buds on the plants it pays well for the extra trouble it makes and if the extra heat is given as above stated and immediately after Christmas taken off in the same manner, 2° every twenty-four hours, there is little or no damage to the stock.

Unless there is a large number of well developed buds on the plants I would not attempt forcing in any way, and if you give the houses the extra heat be careful to have them on the dry side. If there is a good crop of buds on the plants the forcing will be apparent in the production of blooms, but if there are but from one to three buds to a plant the forcing energy would go into the young shoots and the results would not pay for the cost, part of which would be the danger of weakening the young growth of the plant and thereby getting the January flowers weak stemmed and possibly small in size.

Disbudding should be attended to to-day and at least once more next week, as the flowers are not only bettered but the stems are strengthened and careful disbudding will also bring the flowers out quicker, this now being quite an important item.

It seems needless to caution you against pickling any of your stock, yet there are some growers, who ought to know better, who will no doubt hold their stock either on their plants or in their cellars until it is practically too old to sell. There ought to be a law prohibiting the sale of flowers that are too old to keep, just as, in some cities, there is a law prohibiting the sale of fruit that has passed into the stage of decomposition. I know, and so, no doubt, does every reader, of instances where parties have bought carnations for some special occasion and before the day was over they were not fit to look at, or roses the petals of which fell off as soon as they were taken out of the box. This nearly always is the fault of the retailer, who, while he cries to the grower, "do not hold your stock," is at the same time holding his own stock just as long as he possibly can. The retailer who sells carnations at the prices ruling for the holidays, knowing that they will not keep over the day, ought to be made to serve a year at hard labor; the wholesaler should receive the same sentence if he sells old stock to the store man and the grower should always be reached by sending back to him upon receipt all stock that has passed beyond the stage of freshness. ALBERT M. HERR.



CHRYSANTHEMUM MAVOURNEEN.

ROSES.

CULTURAL NOTES.

December 10.—Now that we are fast approaching Christmas roses will be in great demand and this is very apt to induce many growers to force them a little harder for the last two weeks pre-

ceding that day. This and kindred methods are very detrimental to the grower's best interest. Blooms produced by this method, and often kept in storage for days so as to have an extra quantity for Christmas, are of poor quality and the public is beginning to understand this, consequently are yearly buying less, and if this method is persisted in it will deter a great many who would otherwise be liberal buyers from purchasing flowers at Christmas. Several such cases have come under my own observation in the past two or three years, and the experience of the retail florists more than confirms my statement, so that the quicker such methods are stopped entirely the better it will be for all concerned, but more especially for the growers, as it is on them the reaction will first strike.

As the shortest and generally the most cloudy days of the whole year are now practically here, it is better to run the night temperature in tea rose houses a little below the regular temperature of 56°, rather than above it; this, in conjunction with all the air possible by day, will produce the best grade of flowers, providing all other conditions are favorable, such as watering when necessary. Just as soon as the soil begins to feel a little hard they should have a liberal watering, and then be allowed to go till again in the same condition. It will often happen that one part of the house will need water when another part does not; two or three minutes examination will indicate these differences very plainly and water can be given accordingly.

Careful syringing should always be attended to at all favorable opportunities and always before noon of each day so as to allow any surplus moisture to dry off before night. Another important factor is to keep all dead leaves carefully cleared away, and where the last mulching is getting used up by the roots, another thin coating of not over half an inch of well rotted manure should be evenly spread over the surface. At this season this is much safer than using liquid manure as each watering will carry a small portion of the fertilizing qualities of the mulch down to the active feeding roots, and in such form as can be best utilized by them. This applies to plants that are in active growth and have roots working throughout the soil, but where plants are not making any active growth it would be better not to mulch at present, but first get the plants in good health by reasonable treatment.

JOHN N. MAY.



CHRYSANTHEMUM SILVER WEDDING.

Chicago.

CROPS AND THE MARKET.— AMERICAN BEAUTIES AND VIOLETS SCARCE.—O. P. BASSETT WEDS.—BUILDING PROJECTS.—JOTTINGS AMONG THE TRADE.

It has required an expert salesman to dispose of the bulk of the stock which has come into the market this week but of the better grades there has not been nearly enough to supply the demand. Last week pink roses could scarcely be given away while of whites there were too few; this week this story was reversed. Of Beauties the supply is sadly inadequate and those growers who are cutting any considerable number of blooms are looking forward to a merry Christmas.

Carnations are in fair supply and excellent demand, each day's cut being absorbed this week at fair figures. Chrysanthemums are nearly gone. Romans and Paper Whites and lilies of the valley are all in demand. Good stock of each is in the market.

Violets are scarce and high priced for the season. Last week the supply and price fluctuated strangely, one day good flowers being worth $2 per hundred and the next bringing only from 40 cents to $1, but this week the demand has been steady and strong.

O. P. Bassett and Mrs. M. Katherine Parsons were married Tuesday afternoon, December 6, at three o'clock at the home of the bride's mother, Mrs. M. E. Andrews, in Berwyn. The ceremony was performed by Rev. W. E. McLennan, pastor of the Methodist church of Berwyn, and was private. Mr. and Mrs. Bassett will spend the winter at the Lexington hotel.

Chicago's big growers, who have passed through attacks of the building fever are again showing marked symptoms of relapses. Wietor Bros., George and Peter Reinberg and J. A. Budlong are all figuring on extending their establishments in the spring and Bassett & Washburn will, in all probability, build a few houses.

Lloyd Vaughan, of Vaughan, McKeller & Winterson, who is on the road at present, writes his partners that he finds business good in every town he visits and the obesity of his letters shows that orders are coming his way.

There will shortly be rooted cuttings by the hundreds of thousands for sale in Chicago. Because of the prospects for a season of much building more cuttings than ever before are being made.

The local police have apprehended a German gentleman who has negotiated valueless checks and drafts in a score or more of cities and who a few months ago induced H. F. Halle, 548 West Madison street, to cash a check for $25.

The Mrs. Bradt carnation seems to be gaining favor with buyers and good blooms of it bring 6 cents each, but the growers and commission men take exception to it because of the brittleness of its stem.

C. S. Stewart, formerly with Vaughan, McKellar & Winterson, is now with Benthey & Co., who have a very tasteful place at 41 Randolph street.

Lawrence P. Kelley, who has been with Kennicott Bros. Company, will on January 1 become manager for S. B. Winter.

Visitors: L. E. Coleman, Belvidere, Ill.; Wm. L. Hucke, St. Louis, Mo.; J. E. Yeats, Champaign, Ills.; E. Haentze, Fond du Lac, Wis.; Geo. Souster, Elgin, Ill.; Geo. Peterson, Burlington, Ia.

Rochester, N. Y.

Business during the week was quite satisfactory. Carnations were not overplentiful, but excellent in quality; violets sell well if they are good in color and size; roses are to be had in adequate quantities, although the demand has increased materially during the week; Romans and Paper Whites have all been used up clean.

On December 2 a circle of friends was invited by George Ellwanger, to gather in observance of his eighty-third birthday and all his old associates were there, doing honor to the venerable host. Mr. Ellwanger is remarkably active for his years, hale and hearty as ever, and attends to business matters every day.

J. B. K.

THE AMERICAN FLORIST

Subscription, $1 00 a year. To Europe, $2 00. Subscriptions accepted only from those in the trade.

Advertisements on all except cover pages, 10 Cents a Line, Agate, $1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

Cover space sold only on yearly contract at $1.00 per inch, net, in the case of the two front pages, regular discounts applying only to the back pages.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

Holly and Greens—Latest Dispatch.

NEW YORK, Dec. 9.—Bouquet green unusually scarce east and west; choice holly likely to advance later.

WE hazard the statement that there has never been a plant grown in this country in jadoo that has not been *better done* in soil at a fraction of the cost.

READERS of this journal cannot fail to see in the reports of many fires, since cold weather came, a convincing argument for the value of the Florists' Mutual Fire Association.

THE Flower City Plant Food Company, of Rochester, has been incorporated at Albany, N. Y., with $10,000 capital. The directors are John C. Kalbfleisch, Rochester; W. S. Randolph, Medina, and Robert H. Vincent, Clifton Springs.

IN our issue of November 12 an error was made in connecting the name of Frank T. Monahan with the Geneva Floral Co., Lake Geneva, Wis. Mr. Monahan is manager of the Williams Bay Floral Co., and undertakes landscape work in his own name.

MANY of our advertising patrons have suggested a change on the lines made with this issue in the arrangement of advertisements. We are always anxious to conform to the wishes of our advertisers when their demands do not encroach too far upon the rights of those—the best patrons of florists, seedsmen and nurserymen—who purchase the AMERICAN FLORIST for its practical information.

A Trade Paper's Duty to its Subscribers.

We see in the columns of two florists' papers continually flattering notices of jadoo. From these it would appear that this article is of immense value to the commercial grower. This we do not believe. We have made diligent inquiry and have failed to find any prominent commercial grower in this country using it to any extent. Is there such a one? This article has been on the market for two years and if it is an economical fertilizer at the prices charged some of our acute growers would know it. It has seemed the duty of the AMERICAN FLORIST to acquaint its readers, as it has done in former issues, with the intrinsic value of this article as a fertilizer, deeming the interests of its subscribers paramount to advertising patronage under such circumstances. Our contemporaries seem very willing to accept such advertising and to further endorse the claims made therein with reading notices purporting to be news matter.

New York.

NO IMPROVEMENT IN CUT FLOWER MARKET.—PLANT TRADE ALSO DULL.—IMPORTERS' TROUBLES.—MORE POINSETTIAS THIS YEAR.—PLANTS FOR CHRISTMAS AT KELLER'S.—ORCHIDS NOW IN MARKET.—MR. ZELLER TO ADDRESS THE FLORISTS' CLUB.—A CHRISTMAS AUCTION.—FROZEN FLOWERS.—FINE VIOLETS AND CARNATIONS.

The stagnation in the cut flower market still continues with little prospect of improvement until Christmas. The first half of December is always dull, but the unlooked for trouble this year was that the latter half of November, contrary to precedent, was equally unproductive. Retailers are as dispirited over the present conditions as are the wholesalers, and this is the most convincing evidence possible. While a factor in the local situation has been the inclement weather yet the earnest investigator will look deeper for the cause of this continual complaint of bad business in the metropolis where, as is well known, money is spent more freely for flowers and other luxuries than in any other place in America and he is sure at the end to come to one conclusion, that is, that the production of flowers for this market has increased far too rapidly for the requirements and is now away beyond the power of wholesalers, retailers and Greeks combined to distribute it. Of course, this fact is not new but its reiteration seems to have had but little effect on the increase of facilities for augmenting the output. With good roses selling, as they have for the past few days, as low as five dollars a thousand, however, it must be that the limit has been reached. For December, such figures beat the record.

The plant dealers are not very happy either. They have worry at both ends, now, for their trouble begins in earnest when the goods reach port and the appraiser gets his grip on them and ends not until the plants are flowered, sold and the money collected. Much of the inconvenience and loss experienced in plant importation is undoubtedly due to the stupidity or indifference of the shippers on the other side but it is not all owing to this cause and it seems an outrage that our importers' interests and welfare should be subject to the momentary whims of good or ill temper of a single individual with whom, in his arbitrary periods, the word of American florists of untarnished reputation counts for nothing whatever.

Years ago the poinsettia was grown largely for Christmas in this market, but its sale fell off until it was rarely seen. Last season, however, it showed signs of returning popularity and the demand was met with difficulty. There is not likely to be any trouble this year to satisfy all calls, for there are several big lots of this showy plant at the various plant growing establishment where the "tip" of last season was promptly acted upon. J. M. Keller has some arranged, five or six small plants in a 10-inch pan, which should find a ready sale as table ornaments. Mr. Keller advises that only young plants of poinsettia should be grown in pots and the old plants set in benches.

Among other Christmas plants which Mr. Keller has to show are marguerites, Begonia incarnata improved and cyclamens. The much-praised Papilio cyclamen, of which the seed costs twenty cents a kernel in France, comes pretty near being a humbug if the specimens Mr. Keller has raised are a fair sample of the variety. Quite a number of azaleas will be in for Christmas, of which Simon Mardner is decidedly the best. Primula obconica improved shows flowers almost equal to Sinensis and Mr. Keller believes this species will eventually outdistance Sinensis as a flowering plant. He has a grand display of Dendrobium Phalænopsis in bloom. A house of dracænas of the terminalis type attracts the eye; the best variety is Lord Wolseley; it is tougher than terminalis but it is not possible to get the canes yet in quantity.

Dendrobium Phalænopsis appears to have made a place for itself as a florists' flower; it is seen in considerable quantity in the leading stores here. Associated with oncidiums and vandas it makes a graceful effect in window and mantel decoration. Cattleya labiata is all through and the cattleyas now coming in are Trianæ. It is time for Cypripedium insigne but they are not in the market heavily as yet, although the plants in the various greenhouses are full of bloom. The unprecedentedly low figure put on them by one grower is responsible for this. The others are waiting for him to get through or get tired but he claims to be able to supply all demands until next May.

Mr. Charles Zeller, the veteran florist of Flatbush, will entertain the New York Florists' Club at its meeting on the evening of Monday, December 12, with an account of the changes and advancement which he has seen in commercial floriculture during the past forty years. Election of officers will also take place on that evening and it being the last meeting for the year 1898 the entertainment committee announces that light refreshments will be served. In the afternoon the bowling regulations will be decided and officers elected, at the alleys on Sixth avenue.

Cleary & Co. have arranged for a Christmas sale to take place on December 19. The stock will consist of seasonable flowering plants such as cyclamens, azaleas, etc., and palms and ferns.

In the cold weather of last week a good many flowers were delayed and frozen in transit to New York. Newport flowers suffered especially in this respect.

M. J. Moore's violets at Ford Bros.' are dazzlers. With such blooms and such bunching the top price comes easy.

Dailledouze Bros. and C. W. Ward are showing the world how to grow carnations.

Chrysanthemums are still plentiful.

Philadelphia.

EXCELLENT BUSINESS.—GOOD STOCK SELLS AT GOOD FIGURES.—SCOTT NOT IN EVIDENCE.—FLORA HILL'S WEAK STEM.—FLORISTS' CLUB MATTERS.—PENNOCK'S RECENT IMPROVEMENTS.—JOTTINGS.

Business despite the bad weather still continues brisk and of fine roses there are not near enough to go around. There seems to be plenty of room at the top and this extra select stock will command a ready sale at good prices for a long time to come. Brides and Bridesmaids are now seen in good shape but are still a trifle under size and not quite right in color. The bad weather of the past week has no doubt much to do with the color, as there has been but little sun. Beauties are scarce and there is a great demand for the special grades.

There are not so many Scott carnations this season, as many growers have a pet pink one of their own that they think as good or better than this favorite. Many growers are trying Victor and Triumph, both of which are showing up well. Flora Hill is a great disappointment on

account of its extremely weak stem; the flowers are fine and large, although not strictly white. There is a very ready sale for all good carnations.

Chrysanthemums are about done and those who make a specialty of these flowers are not very hilarious over the season's business but think it is about as good as last year.

The December meeting of the Florists' Club was quite well attended. George C. Watson read a very interesting paper on farmers' institutes. Several new members were elected and one was turned down, presumably because he is of the Greek persuasion. We are sorry that such a prejudice exists. An honest and upright man is an ornament to any club, no matter what his nationality may be. This nominee has conducted a small store for two or three years and is well liked by those who have had dealings with him. He was immediately renominated by John Westcott and with such a doughty champion will no doubt be successful. Matters of the coming meeting of the carnation society were discussed and committees appointed to attend to the details. The use of the club room was tendered the society for its meetings. The exhibition will be held in the meeting room of the horticultural society, a large room on the first floor. Mr. Herr says that everything points to the best meeting the society has ever held. The paper for the next meeting is to be prepared by A. Blanc on "Novelties of recent introduction and comments thereon."

S. S. Pennock now has his cold storage plant in full operation and is very well pleased with the results. At present running the machine two hours in twenty-four is sufficient to maintain a temperature of 40°, which is, he thinks, the proper degree. The machinery, driven by electricity, is in the basement but the storage rooms are on the first floor. They are 10x11 and 11x11 and are eleven feet high. They are fitted with slat shelves three and a half feet in depth. The floor space together with that of the shelves is 800 square feet. The space between the shelves is from thirty to thirty-six inches, so it will be seen that an immense quantity of stock can be properly cared for. Beginning with last Monday Mr. Pennock will keep his establishment open continuously from 12 a. m. Monday to 12 p. m. Saturday. He will receive the greater part of his flowers in the evening, and the night force will sort and grade them so that orders can be filled as early as required the next day. This innovation will certainly be appreciated by his customers. K.

Boston.

MEETINGS OF THE MASSACHUSETTS HORTICULTURAL SOCIETY, GARDENERS' AND FLORISTS' CLUB AND FORESTRY ASSOCIATION.—BUSINESS DULL.—FUNERAL OF A PORTLAND VICTIM.—DAMAGE BY STORM.

At the December meeting of the Massachusetts Horticultural Society a communication was presented from Mrs. Jerome Jones with a check for $1000, to establish the Henry A. Gane Memorial Fund, the income from which is to be devoted to prizes for chrysanthemums originated by the late Mr. Gane. On the exhibition table were blooms of Cypripedium Sanderianum from C. G. Roebling and of Cypripedium insigne var. Schroderianum from J. E. Rothwell, to each of which a certificate of merit was awarded. The prize schedule for 1899 was presented and duly accepted.

The Gardeners' and Florists' Club met on Tuesday evening and listened to a short paper on the June bug by James Wheeler. The discussion that followed indicated that this pest has been making trouble for everybody here in recent years, outside and under glass. Mr. Dawson spoke of the value of the electric lights as bug destroyers and thought that the protection afforded to vegetation through this agency was much greater than people realize.

The Massachusetts Forestry Association met at the rooms of the Appalachian Mountain Club on Saturday. The topic for discussion was the purpose and value of pruning forest trees. Jas. H. Bowditch donated the sum of $100 to the association. A local paper speaks of this body as composed of "college professors, tree wardens and amateur foresters."

Business is dull generally and stock is accumulating badly again in wholesalers' hands. No relief from this condition is looked for until the holiday rush sets in. Holly is arriving in very fine condition.

Geo. W. Delaney, well known as an employe in several of the city flower stores, was lost in the Portland disaster. His body was among those recovered and the funeral took place on Sunday.

Chas. Ingram has taken a partner, J. W. Lynes, in his business at Reading. They have bought the old Proctor greenhouses and removed them to their own place.

W. W. Rawson, at Arlington, and John D. Twombly, at Winchester, suffered severely by damage done to their greenhouses by the big storm. Many trees on the Common and in the parks were uprooted and broken.

Visitors in Boston: Paul Berkowitz, Philadelphia; Lyman B. Craw, representing Lord & Burnham, New York; H. F. A. Lange, Worcester; Jos. Fuller, Leominster, and Peter Byrnes, Wickford, R. I.

OBITUARY.

BALTHASSAR JACOBS.

The remains of the veteran florist of Canton, Ill., were, on December 2, followed to their last resting place by a cortege which was evidence of his high standing in the community. Balthassar Jacobs was born at Ensheim, Germany, November 25, 1827. He immigrated in 1850 and after some years in Buffalo, N. Y., and Polo, Ill., took up his residence at Canton. He and Annie M. Walters were married in 1877; they had six children, five of whom survive. His demise was occasioned, after but a few days illness, by pleurisy. The business will be carried on by Mrs. Jacobs and her sons.

CHRISTOPHER YOUNG.

The pioneer florist of St. Louis passed quietly away on the morning of December 4. He was seventy-eight years of age. Mr. Young was born in Easthourne, England, and came to America thirty-three years ago, embarking, almost immediately, in the florist business at St. Louis. By industry and thrift he built up a fortune estimated at $250,000. Mr. and Mrs. Young, but recently celebrated their golden wedding. They have five sons and two daughters. The sons are John, James, Henry, William and Charles Young all connected with the C. Young & Sons Co., which has, at Forest Park, one of the largest establishments in Missouri. The daughters are Mrs. Wm. Ellison and Mrs. Dr. Helwig. The interment took place at Bellefontaine.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By first-class fireman and steamfitter. Address Y N, care Am. Florist.

SITUATION WANTED—By all-round workman on or before Dec. 1st. Good fireman, propagator, etc. Address N Y, care American Florist.

SITUATION WANTED—By young man of 22, as grower or assistant on commercial or private place; single. 7 years experience; south preferred. AMERICAN, care Am. Florist.

SITUATION WANTED—By a single man of good habits, to learn the florist business, a place where partly vegetables are grown preferred. EDGAR EASTERDAY, Nokomis, Ill.

SITUATION WANTED—By gardener Jan. 1st; capable of taking charge of park or large private place; water and tropical gardening specialties. A. J. SEIDERS, Drawer 8, Austin, Tex.

SITUATION WANTED—By an industrious young man who has had 4 years' experience in roses, carnations, violets and 'mums, after Jan. 1, 1899 Address J C, care American Florist.

SITUATION WANTED—Single man, 41 years old; 7 years' experience in roses, carnations, 'mums and general stock; 4 years in last place Good references. Address F F, care American Florist.

SITUATION WANTED—By a strictly temperate florist with excellent recommendations; good greenhouse builder, painter, glazier; 15 yrs. exp. with gen'l stock; designer. PRACTICAL, care Am. Florist.

SITUATION WANTED—By practical florist of 15 years' experience; good cut flower grower, roses, carnations, violets, etc; competent to take charge, sober and reliable; single. Best of references. Address B B, care Am. Florist.

SITUATION WANTED—By German grower, age 32, married; 8 years in commercial place; 7 years as private gardener. Prefer private place. Grow flowers and vegetables both under glass and outdoors. Good references. Address GARDENER. Tivoli, N. Y.

WANTED—Salesmen to sell flower pots as a side line on commission. CAMBRIDGE TILE M'FG CO., Covington, Ky.

WANTED—Foreman in our seed order filling department. State experience, references, age and yearly salary wanted. Steady position for an energetic, sober, experienced helper. J. C SUFFERN, Voorhies, Ill.

FOR SALE—Greenhouse, with Hitchings, heater, used one season; good town. Ill health cause for selling. MRS. J. W. RIDER, Crothersville, Ind.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

FOR SALE—Store and two well stocked greenhouses; 50 minutes' ride from center Chicago; horse and wagon, coal and kindling, tools and sashes on place. $1000 will buy. Proprietor suddenly taken ill. Address B I, care Am. Florist. Chicago.

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Get your order for.....

Roses, Carnations, Paper Whites AND Romans

for CHRISTMAS in early to

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New Illustrated Catalogue Free for the Asking. 25 N. 4th St., PHILADELPHIA.

Wholesale Flower Markets

CINCINNATI, Dec. 8

Roses, Beauties, select	25.00@35.00
" " medium	15.00@20.00
" Brides, Bridesmaids	4.00@5.00
" Meteors	4.00@6.00
" Perles	3.00@4.00
Carnations	2.00@4.00
Lily of the valley	4.00@5.00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00
Chrysanthemums	8.00
Narcissus, Roman Hyacinths	3.00@4.00

ST. LOUIS, Dec. 8.

Roses, Beauties	6.00@35.00
" Meteors	2.00@6.00
" Brides, Bridesmaids	2.00@6.00
" Perles	2.00@5.00
" Kaiserins	2.00@6.00
Carnations	1.50@2.50
Smilax	15.00
Adiantum	1.00
Asparagus	40.00@50.00
Chrysanthemums	5.00@25.00
Violets, California	1.00
" single	.25
Roman hyacinths	3.00
Narcissus, Paper White	3.00
Callas	10.00@12.50
Valley	5.00

MILWAUKEE, Dec. 8.

Roses, Beauties, long, per doz.	4.00
" " medium " "	1.50@3.00
" " short " "	.75@1.00
" Brides, Bridesmaids	4.00@6.00
" Perles	3.00@5.00
" Meteors	3.00@6.00
" Kaserins	4.00@7.00
Carnations, fancy	3.00@4.00
" good stock	1.50@2.00
Smilax	12.50@15.00
Adiantum	.75@1.00
Asparagus	50.00@75.00
Violets	1.00@1.50
Callas	12.50
Stevias	.20

PITTSBURG, Dec. 8.

Roses, Beauties	10.00@35.00
" Brides, Bridesmaids	4.00@6.00
" Meteors, Kaiserins	4.00@8.00
" Niphetos, Perles	3.00@4.00
Carnations, short stems	.75@1.25
" long "	1.50@3.00
Chrysanthemums, common	4.00@10.00
" fancy	10.00@18.00
Violets	.75@2.00
Lily of the valley	4.00
Smilax	10.00@15.00
Adiantum	1.00@1.50
Asparagus	50.00@75.00

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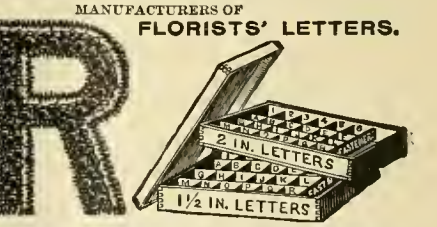
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Brides, Bridesmaids, Meteors	$3 to $4.00
Perles	2 to 3.00
Carnations	1 to 2.00
Carnations, fancy	3 to 4.00
Valley	5.00
Paper White Narcissus	3 to 4.00
Asparagus, per string, 50c	
Smilax	10 to 12.50
Violets	1.25 to 1.50
Common Ferns, per 1000,	1.50.....20c
Adiantum	75c to 1.00
Galax Leaves...$1.50 per 1000	.20

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24-in. stem	"	3.00 to 3.50
20 "	"	2.50
15 "	"	1.50 to 2.00
12 "	"	1.25
8 "	"	1.00
METEOR	per 100,	4.00 to 6.00
BRIDESMAID	"	4.00 to 6.00
BRIDE	"	4.00 to 6.00
KAISERIN	"	4.00 to 6.00
PERLE	"	3.00 to 4.00
CARNATIONS, common	"	1.50 to 2.00
" fancy	"	3.00

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Roses, Beauties, extra long, per doz.	4 00@ 5.00
" " 24 inch " "	3.0@ 3 50
" " 20 " " "	2.50
" " 15 " " "	..1.50@2 00
" " 12 " " "	1 25
" " 8 " " "	1 00
" Brides	4 00@ 6.00
" Kaiserins	4.00@ 6.00
" Bridesmaids	4 00@ 6.00
" Perles	3.00@ 4.00
" Meteors	4.00@ 6.00
Carnations	1 50@ 2 00
" fancy	3 00@ 4.00
Lily of the valley	4.00@ 5.00
Adiantum	.75@ 1.00
Common ferns	.20
Smilax	12.00
Asparagus	40.00@50.00
Violets	1 25@ 2 00
Chrysanthemums, common	4 00@12 00
fancy	...15.00@25.00
Catt'eyas per doz.,	$6 00
Cypripediums "	2.00
Callas per doz	1 50@2 00

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PHILADELPHIA, Dec. 7.

Roses, Teas	3.00@ 6.00
" " extra	8.00@10.00
" Beauties, extra	30.00@40.00
" " firsts	18.00@25.00
" " seconds	10.00@16.00
Carnations	1.50@ 2.50
Lily of the valley	3.00@ 4.00
Asparagus plumosa	35.00@50.00
" Sprengerii per bunch .50@1.00	
Smilax	15.00@20.00
Violets, double	1.00@ 2.00
Narcissus, Roman Hyacinths	3.00@ 4.00

BOSTON, Dec. 7.

Roses, Beauties	8.00@30.00
" Kaiserins, Meteors	4.00@10.00
" Brides, Bridesmaids	4.00@ 8.00
Carnations	1.00@ 2.50
Lily of the valley	3.00@ 4.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00
Chrysanthemums	4.00@12.00
Violets	.75@ 1.00
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...GEO. M. KELLOGG...

Largest Grower of... in the West. Cut Flowers
Give us an order and we will please you.
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LONG DISTANCE 'PHONE AT EITHER PLACE.

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Top Grade BEAUTIES, BRIDES, BRIDESMAIDS.

Extra Carnations.

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CONSIGNMENTS SOLICITED. Telephone 2387-18th St.

Shipping orders will receive prompt and careful attention.

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Roses shipped to all points. Price List on application.

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STRINGS 8 TO 10 FEET LONG, 50 CENTS. W. H. ELLIOTT, BRIGHTON, MASS.

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CUT FLOWERS,

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Cut Flower Exchange. NEW YORK.

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JOHN YOUNG,

ROSES, CARNATIONS, VALLEY

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Wholesale and Commission

FLORISTS...

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Wholesale Flower Markets

NEW YORK, Dec. 7.

Roses, Beauties	5.00@20 00
" Bridesmaids, Brides	1.50@ 3 00
" Morgana Perles	1 50@ 2 00
" Niphetos, Cusina	.50@ 1 00
Carnations	.50@ 1.25
" fancy	2.00@ 3.00
Lily of the valley	2 00@ 3.00
Smilax	8 00@12 00
Asparagus	35.00@50 00
Cattleyas	40 00@50 00
Cypripediums	6.00
Mignonette	4 00@ 8 00
Adiantum	.50@ 75
Violets	.75 a 1.75
Chrysanthemums	5.00@12 00
Roman Hyacinths	2.00

BUFFALO, Dec. 8.

Roses, Beauties	10.00@50.00
" Brides, Bridesmaids	4 00@ 8 00
" Meteors	5.00@ 8.00
" Perles, Niphetos	3 00@ 5 00
" Kaiserina	4.00@ 8.00
Carnations, ordinary	1.25@ 2.00
" fancies	2.00@ 3.00
Lily of the valley	4.00
Smilax	12 00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	.75@ 2.50
Chrysanthemmus	4 00@20.00

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Capable, experienced. Consignments solicited.

Say: "Saw it in the FLORIST."

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THE NEW YORK CUT FLOWER CO.

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WHOLESALE FLORIST.

Careful Shipping to all parts of the country. Price List on application.

JAMES M. KING

Commission Dealer in

CUT FLOWERS.

Good Money for your Flowers.

Good Flowers for your Money.

49 WEST 29TH ST., NEW YORK.

TELEPHONE 1675 38th St.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

LESTER MORSE, of C. C. Morse & Co., has returned to California.

JOHN BARCLAY, the well known traveler, is now with Vaughan's New York house.

HEAVY storms have caught sweet corn crops west and east, and the prices are advancing.

THE Cox Seed Company have located their New York warehouse at 34 Gansevoort street.

BROOKLYN, N. Y.—The Brown Bag-Filling Machine Co. will put in a machine here for a proprietary house.

THE lawsuit of S. Y. Haines with C. H. Lippincott, of Minneapolis, Minn., has terminated in favor of the former.

GILBERT H. HICKS, who was an expert in the seed work of the Department of Agriculture, died at Washington, D. C., December 5.

CHAMPAIGN, ILL.—A pure food and pure seed conference, taking in the entire state, will be held at the University of Illinois December 13.

CHICAGO VISITORS:—J. M. Kimberlin, of Santa Clara, Cal., was in the city December 6, enroute to St. Louis; Albert McCullough, of J. M. McCullough's Sons, Cincinnati.

IT is reported that a large sale of seeds was consummated in New York the past week by Chas. P. Braslan, of the Braslan Seed Growers Co., presumably for the government order.

As predicted early in the season, bouquet green has become very scarce, the supply at present not being equal to the demand. Evergreen wreathing is accordingly advancing in price, and the demand for it is brisk. As also foretold with regard to holly, choice Delaware stock is quite short.

The Rocky Ford Musk Melon.

Because of the interest excited among the seed trade by the demand for and sale of this new melon, the AMERICAN FLORIST has secured two articles on the subject, one from Mr. Roland Morrill, the Michigan melon grower, the other from Mr. Frank T. Emerson, the Nebraska vine seed grower. A careful perusal of each will disclose radically different opinions as to why the Rocky Ford melon has attained its present fame and our readers must judge for themselves wherein lies the true secret of success. The statements of each writer must stand or fall on their own merits. Mr. Morrill's statement appeared in our issue of December 3; that of Mr. Emerson is given herewith.—ED.

II.—MR. EMERSON'S VIEWS.

Away out in Colorado, about fifty miles east of Pueblo and more than 2,000 miles distant from the Atlantic coast, a few farmers a number of years ago planted a small acreage with water melons for the Pueblo, Colorado Springs and Denver markets. The undertaking proved a financial success and thus the little town of Rocky Ford laid the foundation for the fame for which it has since become celebrated as a melon growing center.

The demand for melons grown in that locality increased each ensuing season and created a corresponding increase in the number of growers who, to guard against the cutting of prices among themselves, as well as to advance and protect their interests in other directions, formed an alliance, or union, known as the Rocky Ford Melon Growers' Association. Several years ago the association conceived the idea of also growing musk melons upon a limited scale for its local market and selected for the purpose Burpee's original oval type of the Netted Gem variety which they found to be very early, exceedingly productive and generally of good quality, although as with all musk melons there was always a certain percentage of the crop that were inferior in quality and not sufficiently long keepers to answer for shipping purposes.

To overcome these objections the Colorado melon growers, with the proverbial energy of the "audacious Westerner," went to work with an enduring patience, care, labor and skill that was indefatigable, experimenting with specimens selected for the purpose until finally, by operating and applying "the doctrine of evolution" they succeeded in developing a fixed strain which while apparently resembling the parent stock in shape, size, etc., far surpassed it in productiveness and shipping or lasting properties; and in regard to eating quality it has been pronounced, wherever tried, as excelling in flavor and sweetness any other green-fleshed commercial variety.

This is a fact that precludes any argument. Four years ago the so-called Rocky Ford musk melon was unknown. A year later a stray lot would now and then be occasionally heard of. Two years ago seed dealers in Boston, New York City and Rochester, N. Y., were inquiring, "What is this Rocky Ford musk melon that came in on our market this season, and where is it grown?" During this present season it is safe to state that there is hardly a city of any importance whatever as far east as Portland, Me., wherein this musk melon has not been sold at prices ranging from two to three and four times higher than local stock, which certainly should be to any one indisputable proof as to its superlative quality.

There has never before to our knowledge been so systematic a process of developing, advertising and so successfully and profitably marketing anything in fruits or vegetables in this country as has been demonstrated by this association with the Rocky Ford melon. From but an exceedingly small acreage, devoted to the production of this melon, only a few years ago, the association has increased the acreage to an extent that is simply wonderful, no less than 6,400 acres having been planted with this one variety at Rocky Ford and its vicinity the past season. It is reported on good authority that the association made one contract alone to furnish 800 carloads to one commission firm last spring at 97½ cents per crate, each carload containing 465 crates. Think of it! 292,000 crates containing forty-five melons each and realizing for the growers the sum of $284,700 from this single contract.

Who in the face of such a result gained by the co-operation of a number of growers can contradict the benefit that might accrue if similar associations were formed by seed growers in every special line? Would we not, by paying our growers higher prices, obtain seed crops of better quality, with a possibility of increased profits to ourselves? Rocky Ford musk melons sold on the Chicago market the past season at $1.50 per crate in competition with Michigan, Illinois and Indiana Gems at 20 cents per basket, which was equivalent to less than 60 cents per crate for the latter. Can there be any stronger additional proof required as to the superior quality of the Rocky Ford? It can be no ordinary musk melon that will stand shipment over 1000 miles in August and September and then sell for twice the price of home grown stock.

It is interesting to note the progressive and aggressive energy which has been devoted to the creation of new markets by this association. Several carloads of melons would be shipped to a city, where the Rocky Ford was comparatively unknown, with instructions to the consignee to go on the open market and for the purpose of introducing the melons to give away a number of crates of same to each of the larger buyers. Of course such gifts would be accepted without hesitation and on such days the local market would fall flat, and the gardeners being unable to sell out would haul their melons home again disgusted. The next day every hotel, restaurant and other large consumer of musk melons would have no other kind but the Rocky Ford and there are many instances where it is known that they paid as high as $3 per crate rather than buy local stock at any price.

While this method of forcing sales may be considered a form of piracy, the end desired by the association was attained; but the gardeners who were compelled to lose thereby *will remember the Rocky Ford musk melon* when making their seed purchases next spring, and will gladly pay a high price to obtain the seed. During three days of last September at the Omaha Trans-Mississippi Exposition the Rocky Ford Melon Growers' Association disseminated nineteen carloads of melons free to thousands of visitors from all over the world, simply as a practical advertisement to lovers of melons. Considering the value of the melons—cost of crates, freight charges, time and labor required in handling the melons on the grounds—could any form of advertisement be any more strikingly noticeable and permanently effective!

It has been suggested that the superior qualities contained in the Rocky Ford musk melon are owing to the climate and soil of the eastern part of Colorado. This idea is erroneous as a comparative test has satisfactorily demonstrated during the past season, at Waterloo, Nebraska. The superior qualities referred to are the direct result of a rigid system of selection of the fruit. The association employs inspectors who pass judgement on every melon as to size, shape, etc., prior to crating. The melon must be oval, small, well netted and solid and firm at the blossom end, this last indicating keeping quality; but even with the foregoing points in its favor, if there can not be faintly discerned beneath what might be termed the transparent green color of the seam between the lobes, a *golden tint*, irregularly formed (like the border of a piece of lace work) and following the contour of the ragged edge of the netting, where it joins the dividing seam, then experience has proven that the melon is most liable to be defective, and it is rejected as not being up to the standard required; and *therein lies the secret of the success* attained by the association in sustaining, by constant

vigilance in the selection of seed stock first, then of the crop itself, the reputation of and ever increasing demand for the Rocky Ford melon. Climate and soil are elements to be considered in growing all crops, but in this case the results are owing to brains and good management.

Last spring seed of the Rocky Ford known to be selected with extra care by the local Rocky Ford growers sold at $5 per pound. Owing to the increased acreage there was not a sufficient quantity obtainable to supply the demand and the association purchased several hundred pounds of what it was assured by certain eastern dealers to be seed of the true oval type of Netted Gem musk melon. When the time for harvesting and shipping the crops arrived it was found that a large proportion grown from this outside seed purchased by the association consisted of melons that were much too large and very badly mixed with round shaped melons, and the eating quality was so inferior that they were rejected by the inspectors. It has been reported that the seeds of some of these rejected melon crops were saved and that they have been offered for sale to the seed trade. If these reports are true, it is to be deeply regretted that the growers should have permitted themselves to adopt any such reprehensible methods, for although the disseminating of seed of such inferior stocks would undoubtedly tend to enhance the value and increase the sale of the genuine Rocky Ford strain, it would mean a severe loss to many hard-striving market gardeners throughout the land, whose crops would be found unsalable in their local markets, in competition with shipments received from Rocky Ford.

Too much care therefore cannot be exercised by the seed trade in supplying themselves with the true Rocky Ford type. That it should be generally catalogued by the seed trade needs no recommendation. No other melon has ever had anything like the extent of practical advertising that has been directed into such close touch with the consumer and with such remarkable force in every melon market of the country, especially in the north; and if it is catalogued and brought to the attention of market gardeners there will be, in our opinion no difficulty in obtaining ready sale for all the available supply of seed at prices ranging several times higher than the prices obtained for the best of all the other early green fleshed musk melons yet introduced.

Cincinnati.

THE BUSINESS SITUATION.—HAPPY HYMENEAL HAPPENINGS.—JOTTINGS.

Business the latter part of last week was very satisfactory, but the first of this week started out rather poorly. Violets at present are very scarce and there are not enough American Beauties to meet demands. Tea roses, carnations, lily of the valley and bulbous stock is plentiful enough to go around.

Wm. Turner, foreman for Julius Peterson was quietly married November 30 to Miss Dollie Carr, of Westwood. Ed. Freis, of Newport, was showered with congratulations at the market upon his marriage to Miss Hagedorn.

A. L. Vaughan, representing Vaughan, McKellar & Winterson, of Chicago, was a caller this week. H. SCHWARZ.

Nashville, Tenn.

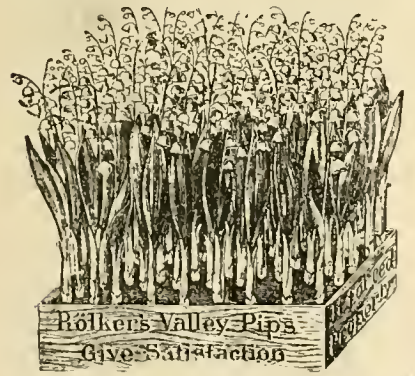
The social wheel is still turning at a lively rate, with a corresponding activity in floral circles. American Beauty is an easy favorite, with the supply just about equal to the demand. All roses are rather off crop now but with a prospect of coming in plentifully for the holidays.

An event of the week was the visit of Geo. H. Cooke, decorator for Small & Sons, Washington, D. C., who came out with the bridal bouquets and decorations for the Studds-Eastman nuptials, which were the most elaborate ever consummated here. Mr. Cooke arranged the house decorations most lavishly and artistically but the church decorations were of palms arranged by a local florist.

Violets have been very scarce, with small prospect of a plentiful supply, as the weather continues unfavorable. Violets are grown here in cold frames, which has its disadvantages, for, when a freeze sets in, it is impossible to open the frames to get at the blossoms. M. C. DORRIS.

PAOLA, KAN.—A. Roth has just completed a house 20x60 for carnations.

AURORA, ILL.—Winnie Smith, daughter of W. L. Smith, is the successful society writer upon the *Beacon*, the leading evening paper of the city.



BEST HAMBURG per 1000 $10.00

Forcing Pips.

Less 10 per cent for prompt cash.

August Rölker & Sons, 52 Dey St., NEW YORK.

Dealers in Seeds, Bulbs and Supplies.



Do you Ship Onion Sets?

Hercules Ventilated Barrels are RIGHT for Shipping any Product requiring ventilation.

We sell thousands to large shippers of produce and onion sets. The Hercules is the only barrel which can be shipped knock-down and does not require a cooper to set them up. One man can set up 75 to 100 Hercules barrels per day. Every shipper can be his own cooper and **save money.** We ship the barrels knock-down, with heads and hoops complete and ready to be set up. Fourth-class rates apply in less than car lots.

We furnish our set-up outfit for $2.00 and refund the $2.00 when you have purchased 500 barrels.

Write for sample barrel and prices.

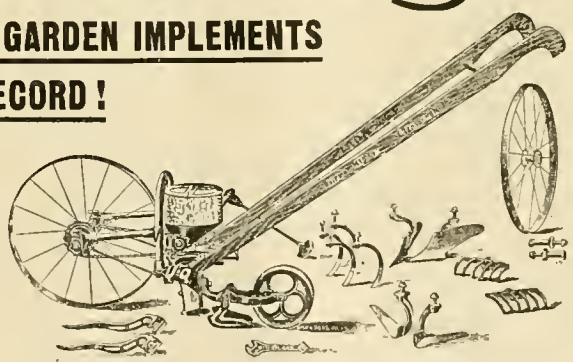
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288 W. 20th Place, CHICAGO.

"Iron Age"

FARM AND GARDEN IMPLEMENTS

HAVE A RECORD!



Seedsmen will find this line particularly desirable for cataloging. Write for prices and cuts.

We want every Florist to have one of our "Iron Age" books. A postal card will bring a copy.

BATEMAN MFG. CO.,

Box 184..... GRENLOCH, N. J.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

IN THE vicinity of Kalamazoo, Mich., the recent severe weather has been disastrous to the late celery crop.

With Colorado Horticulturists.

The Colorado Horticultural Society held a not largely attended but most instructive convention at Denver November 28-30. Among those in attendance were: A. F. Baird, Baldwin, Mo.; J. Ball, Arvada; W. J. Sawyer, Hotchkiss; S. M. Carlzin, Montclair; J. P. Kernochan, Delta; J. C. Kassin, Rocky Ford; W. T. Lambert, Sedalia; C. W. Steele, Grand Junction; J. S. Ibbson, Wheat Ridge; H. C. Sherman, Sterling; B. F. Rockafellow, Canon City; J. E. Payne, Cheyenne Wells, Colo.; W. M. Davis, Wheat Ridge; J. F. White, Arvada.

Exterminating Gophers.

ED. AM. FLORIST:—I am about to take possession of a piece of prairie land which is badly infested with gophers. Can you kindly tell me how to exterminate them quickly and cheaply? The land in question has been unoccupied for years. A. R. M.

Larchmont, Wash.

The best and most effective method of destroying pocket gophers and most burrowing animals is by the use of bisulphide of carbon. This poison is cheap, easily obtained, and if applied thoroughly the results are usually satisfactory. A fresh hole should be selected or a burrow opened near a point where a fresh hill has been thrown up. A bunch of cotton, waste, rags, or similar material, saturated with two tablespoonfuls of bisulphide should then be thrust well down into the hole and the opening closed. The gas which is formed soon fills the hole and will penetrate to the more distant parts of the burrow and suffocate the occupants. On sloping ground the poison should be introduced at the highest point since the gas being heavier than air flows, like water, to the lowest part of the hole. The main difficulty in using this poison is that the burrow may be long or may be filled with earth and the animal will be beyond the reach of the fumes. In this case the bisulphide should be introduced at several points and if necessary the operation should be repeated. Crude bisulphide specially prepared for this purpose can be obtained from some manufacturing chemist. It has a powerful odor, is inflammable and more or less explosive. Care should therefore be taken when handling it, not to open it near a light, but otherwise no danger attends its use. JAMES WILSON.
Sec'y of Agriculture.

Washington, D. C.

Europe Fears San Jose Scale.

On December 1 the government of France promulgated a decree prohibiting the importation of American fruits, shrubs and trees. This action was taken as a safeguard against the San Jose scale, which now infests thirty-eight states in the union.

"This action by France," says Dr. L. O. Howard, of the Bureau of Entomology of the Department of Agriculture, Washington, D. C., "is in line with the steps taken by other European countries. It will be remembered what a storm of protest arose when Germany, about a year ago, took the initiative in this matter and absolutely prohibited the entry of American fruits and trees. We came near making an international matter of it. Later she modified her decree so as to permit the importation of fruit after careful inspection, but refused to recede in regard to trees. Soon Austro-Hungary followed with a similar decree. Then came Canada, Switzerland, and Holland while Sweden and Great Britain began to investigate. Now it is France's turn."

These prohibitory enactments are of paramount importance to American horticultural interests and demand measures commensurate with the exigencies of the case. Experiments at Washington, conducted in the presence of the representatives of foreign governments, prove that the San Jose scale is harmless when taken into the human stomach and that the insect cannot survive the processes employed in drying fruit. This, coupled with the fact that experience records no case of trees becoming infested through fruit shipped to foreign markets, will doubtless result in all governments following Germany's lead in removing, under a system of inspection, the embargo placed upon American fruit and fruit products. But what of the nursery interests?

The American Association of Nurserymen has placed the stamp of its approval upon the Barlow bill, introduced at the second session of the present congress, which provides for a governmental inspection of fruits and fruit trees, and authorizes the fumigation or destruction of infested specimens. Every person who would not see the markets of all Europe closed to our nurserymen should accord the legislative committee his assistance in urging its enactment into law.

BOONVILLE, N. Y.—Henry Russell's greenhouse was damaged by fire on the night of November 23.

CROMWELL, CONN.—About 500 lights of glass were broken in the greenhouses of A. N. Pierson by the storm November 26. Henry Weiddermire also lost some glass.

NEWPORT, R. I.—Thomas Beattie, before leaving for his new place in Pomfret, was tendered a farewell reception by members of the Florists' and Gardeners' Association and St. Andrews' Society on November 24 at Mercury Hall. Mr. and Mrs. Beattie were presented with a handsome parlor clock.



Throw more than half the hard work and worry of caring for your flowers and plants on that quick-acting, safe, sure fertilizer,

The Imperial Plant Food—

save time and trouble and money too. The "Imp" furnishes ideal nourishment from the very start. It produces a luxuriant, vigorous growth. Convincing testimonials, fuller information, and prices, for a postal to

EASTERN CHEMICAL CO., MFRS.,
620 Atlantic Avenue, Boston, Mass.

I HAVE A LARGE STOCK OF
CLEMATIS

2 and 3-year old, extra strong, field-grown plants, finest sorts (with 30 per cent. Jackmanni), Henryi, Batemanni, Duchess of Edinburg, Gypsy Queen, etc. Price, $10.50 per 100, $100.00 per 1000. 1b. Id., without Jackmanni, $8.50 per 100, $80.00 per 1000. Clematis, 1-2 year cultivated, in 5-6 inch pots, 40 per cent Jackmanni, $9.00 per 100, $80.00 per 1000; without Jackmanni, $8.00 and $75.00. References requested from unknown correspondents.

J. GROENEWEGEN,
Boskoop, Holland.

....AUTUMN 1898....

One Million
Flowering Shrubs; full assortment; all sizes.

Half Million...
Deciduous Trees for street, lawn and avenue planting.

200,000 Vines, Ivies, Clematis, Actinedia and other sorts. Correspondence solicited.

THE WM. H. MOON CO.
MORRISVILLE, PA.

EVERY CATALOG OF
Seeds and plants should offer our Shears. Close rates. Free Electros.

Kelly's Pruning Shears,
Flower Gutherer and Grape Picker.
All in one simple tool, which, unlike ordinary Shears, holds firmly anything cut. Indispensible to Florists, Grape or Plant Growers.



Circulars Free. Pruning Shear Co., Fremont, O.

HARDY SHRUBS
Assorted in 25 Varieties.
My selection $50 per 1000. Descriptive catalogue and price lists for the trade.
SAMUEL C. MOON,
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Mention the American Florist.

HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
JACOB W. MANNING,
The Reading Nursery, READING, MASS.
ESTABLISHED 1854



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for the asking. Every farmer should have one.
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PETERBORO', ONT.,
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FIELD-GROWN ROSES $1 per dozen
80 varieties. Plants 1½ to 3 feet.
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F. & F. NURSERIES SPRINGFIELD, NEW JERSEY.
Wholesale Growers, TREES & PLANTS in Full Assortment. TRADE CATALOGUE FREE



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looks alike to you

Get a case of our

UNXLD BRAND

and see the difference

SELECT DELAWARE HOLLY IS SCARCE, but we have, at advanced rates, procured a fancy grade, well berried and bright green leaves. We quote you: One case, $4.50; 5 cases, $21; 10 cases, $40.

BOUQUET GREEN, fresh stock, 100-lb. crate, $6.00.

BOUQUET GREEN WREATHING, per 100 yards, $5.00.

MISTLETOE, WILD SMILAX, NEEDLE PINES and all XMAS STOCK.

Write or telegraph. All orders receive prompt attention.

PALMS & FERNS, fine stock at reasonable prices; all **CUT FLOWERS** in season.

ELLIS & POLLWORTH, Milwaukee, Wis.

RAMBLER ROSES

Now is the time to order

CRIMSON, PINK, WHITE and YELLOW RAMBLERS

to pot up for Easter sales.

2-year dormant plants, doz. $2.00, 100 $15.00
3 " " " " 3.00 " 20.00

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NEW YORK. CHICAGO.

GREENHOUSES, Western Springs, Ill.

AZALEA INDICA.

Superb stock: to clear out a later consignment, we offer:

8-10-inch	per dozen, $3.50;	per 100,	$25 00
10-12-inch	" 4 25;	"	32.00
12-14 "	" 5.50;	"	42.00
14-16 "	" 6.50;	"	52.00

SEND ORDERS QUICK.

Lil. Auratum, Rubrum, Album ready.

Special offer Lil. Longiflorum, 7-9-in., per 100, $3 net.

H. H. BERGER & CO., 47 Barclay Street, New York.

(ESTABLISHED 1878.)

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In fine bloom for Christmas, 4-in. pots, $12 per 100.

200 fine **AZALEAS,** in bloom, 6-inch pots, $1.50 to $2.00 each.

500 4-inch pot **SWORD FERNS,** Exaltata Compacta, $15.00 per 100. CASH WITH ORDER.

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ROSES, from 3-inch pots.
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Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N.Y.

BEGONIAS AND GLOXINIAS

In any quantity.

SANDER, Bruges, Belgium.

AGENT: **A. DIMMOCK,**

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Rose Hill Nurseries,

OUR SPECIALTY: Headquarters

Areca Lutescens, Kentia Belmoreana, Cocos Weddeliana, Kentia Forsteriana, Livistona rotundifolia, Phœnix rupicola, Phœnix reclinata, Araucaria excelsa, Pandanus, Ferns. The largest stock of Kentias in America.

SIEBRECHT & SON, New Rochelle, N. Y.

50,000 SEEDLINGS NOW READY.

Cyclamen Persicum Splendens (giganteum), transplanted from flats, in four true colors, $3 per 100. $25 per 1000. **Cineraria** Hybrida Nana and Grandiflora, from flats, $1.50 per 100. **Chinese Primroses** in finest mixture, from 3-in. pots, $4 per 100; from 4-in. pots, $5 per 100. **Geraniums, Ivy Geraniums, English Ivy,** prices quoted on application.

SATISFACTION GUARANTEED.

MADER & STEMPLE CO. Ltd., E. Stroudsburg, Pa.

ADIANTUM CUNEATUM...

Fine pot-bound stock, ready for a shift.

2½-inch, strong	$4.00	per 100
3 " "	6.00	"
4 " "	12.00	"
5 " "	20.00	"

See Chrysanthemum Number for other stock.

Cash please. **CARL HAGENBURGER, W. Mentor, O.**

Special Winter Offer,

INCLUDING PREPAYMENT by parcel post or express, according to weight of order.

ORCHID BLOOMS—L. anceps and L. autumnalis, until Dec. 15th, $2.00 per dozen; $12.00 per 100.

BULBS—Milla biflora, Besaera elegans, Cyclobothra flava, Tigridias Pavonia, Conchiflora and Rosea, per 100 $1.50; per 1000 $12. Amaryl is Formosissima and Pancratium "Spider Lily", $2.00 per 100.

CACTI—A collection of 25 different varieties $3.00. 100 Cacti in 6 good varieties, $6.00. Old Man Cactus per dozen $3 00.

ORCHIDS. Lælias majalis, albida, anceps and autumnalis, $3.50 per dozen; $25.00 per 100 Odontoglossum Cervantesi, Maculatum, Nebulosum, Rossi, $3.00 per dozen; $20.00 per 100 Cattleya Citrina, $3 00 per dozen; $20.00 per 100. A sample collection of 20 different varieties, **prepaid, $5.00.**

Cash with order from unknown correspondents.

J. A. McDOWELL,

APARTADO 167, CITY OF MEXICO.

BULBS!

OF ALL KINDS.

Hulsebosch Bros. ENGLEWOOD, N. J.

SPIRAEAS Japonica	Per 100,	$3.50
Compacta	"	6.00
Astilboides Floribunda	"	6.00
Palmata, b'utiful pink	"	10.00

Extra strong clumps.

F. L. ATKINS, Orange, N. J.

GRANDIFLORA.
CAPE JESSAMINE.
GARDENIA FORTUNEI.

Bloom half again larger than G. Florida. Northern florists retailing at 75c to $1.00 each. Nothing better for Christmas Decoration:

18 to 24 inch..... per 10, $1 00; per 100, $7.50.
2½ to 4 feet " $1.25; " $9.00.

C. W. BENSON, Alvin, Texas.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

Chicago Bowlers.

A score of bowlers repaired to the alleys at the close of the last Florists' Club meeting and by their united efforts produced the following record:

Name	1st.	2d.	3d.	Ave.
George Stollery	177	151	...	164
J. S. Wilson	135	151	...	143
E. F. Winterson	126	155	. .	142
Fred. Stollery	145	131	...	138
Walter Kreitling	149	118	...	134
John Degnan	116	128	...	122
James Hartshorne	93	149	...	121
C. S. Stewart	135	96	131	121
M. Barker	...	119	...	119
C. W. McKellar	104	128	...	116
A. McAdams	95	138	105	113
L. E. Coleman	81	119	...	100
A. Lange	100	...	...	100
Alex. Henderson	110	87	...	99
C. W. Johnson	99	...	...	99
P. J. Hauswirth	87	105	...	96
John Keos	95	...	...	95
C. Swigart	96	92	...	94
A. N. Broadbeck	79	55	106	87
Wm. L. Hucke	74	74	...	74

Philadelphia Pastimes.

The bowlers are having a merry time on the alleys these days, or rather nights. Last Saturday evening saw the usual crowd of enthusiasts bowling away as if something of importance was at stake, instead of which each man was only trying to make a better score than his opponent so that he might make him the subject of his good-natured raillery and, incidentally, save his tickets. Scores ran high; 170 and over was a common figure and three scores of over 200 were made: Kift 201, Moore 206, Moss 211. Three 200 games in one night is a pretty good record and it shows that the boys are improving.

On Monday evening last another match between associate and active members was played and resulted in a Waterloo for the Associates, they being defeated by 248 pins. The score follows:

ACTIVE MEMBERS.

Name.	1st.	2d.	3d.	Total.
Westcott	167	177	160	504
Watson	132	118	125	375
Kift	106	139	152	397
Connor	116	130	147	393
Longinotte	157	160	137	454
Moss	147	112	183	442
Team	825	836	904	2565

ASSOCIATE MEMBERS.

Name.	1st.	2d.	3d.	Total.
Archer	116	165	102	383
Everbach	131	102	124	357
Starr	131	148	129	408
Renear	126	119	129	374
Moore	112	154	146	412
Goebel	133	120	120	383
Team	749	818	750	2317

Fun at Flatbush.

The great contest between the "Clams" and "Lobsters" has not yet been settled owing to the absence of leading spare-makers on the last two Thursday evenings. At the last meeting John Walker, of Philadelphia, illumined the alley with his presence and had no difficulty in rolling up a big score. Tom Brennan made the record for the evening with a score of 201 which won for him a generous "pot." Had he been as successful the previous Thursday John Raynor would not have got away with that fifteen pound turkey. The only man who ever forgot to take the "pot" when he had won it was Louis Schmutz, but he found it there just as he left it, when he returned the following week, a tangible testimonial to the scrupulous honesty of the Flatbush bowling fraternity.

BROOKLINE, MASS.—F. E. Palmer is a leader in the organization of a Business Men's Association which is expected to be of great benefit to trade here.

SHILOH, O.—G. G. Swanger is equipping his greenhouses with new heating apparatus.

BROCKTON, MASS.—The successful outcome of last month's flower show, under the management of the Brockton Gardeners' and Florists' Club, has awakened a new interest and the club is now considering the advisability of holding three exhibitions a year.

IF YOU ARE A GROWER OF.....

Cut Flowers

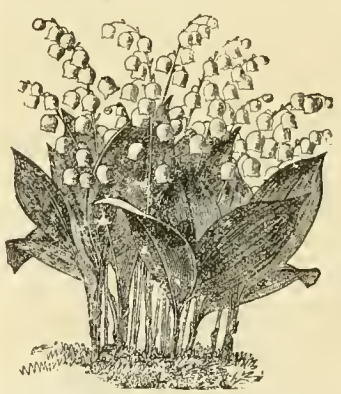
It will be to your interest to call and see us. We can place your stock in a way to secure the top market value.

Our terms and system of doing business will be most satisfactory. Correspondence solicited.

N. B.—We can also sell your Decorative Plants. Advise us what you have to offer.

DECKER, BLAUVELT CO.

Telephone 2387-18th St. 42 West 28th Street, NEW YORK.



LAST CALL. Since my Ad. of last week stock has been melting away very fast. Hurry up if you want some good stock at reasonable figures.

VALLEY PIPS. Watson's Best Berlin. $12.00 per 1000. These are the very finest selection of 3-year pips, all large and uniform in size and carefully packed. Quality unsurpassed. I will sell in unbroken cases (2500) at $11.50 per 1000, cash.

SPIRÆA JAPONICA, large clumps, well budded. $4.00 per 100.

SPIRÆA ASTILBOIDES FLORIBUNDA, extra fine clumps. $5.00 per 100.

SPIRÆA COMPACTA MULTIFLORA, $5 50 per 100.

RAFFIA, new lot just in, fine quality, 15c. per lb.

TOBACCO STEMS. (Absolutely fresh.) $9.00 per ton. Half ton lots at same rate; baled and delivered to depot.

TOBACCO DUST, genuine leaf dust, not ground stems, in 50-lb. bags, $3 per 100.

WATSON'S BONE MEAL—Strictly Pure—(for florists). $30.00 per ton. Half ton lots at same rates; f. o. b. Phila.

George C. Watson, PHILADELPHIA, PA. Juniper below Walnut.

JUST RECEIVED FROM JAPAN IN FINE CONDITION.

	Per 1000
Lilium Auratum, 7 to 9 inches at	$30.00
" " 9 to 11 " at	50.00
Lilium Speciosum Album, extra size, at	$100.00
" " Rubrum, " at	60.00
" " Melpomene, " at	100.00

We have still left a few thousand of our WHITE ROMAN HYACINTHS, 12 to 15 centimeters, which we offer to first comer at $10.00 per 1000.

J. M. THORBURN & CO., 36 Cortlandt Street, New York.

VAUGHAN, McKELLAR & WINTERSON.

CUT FLOWERS.

For week beginning Monday, Dec. 12th.

ROSES.

Beauties, long, per doz.,	$3.00 to $4.00
" medium "	2.00 to 3.00
" short "	1.00 to 2.00
	Per 100.
Brides, Maids, Meteor,	$3.00 to $5.00
Kaiserin, La France	3.00 to 5.00
Perle, other teas	2.00 to 4.00
Roses, our selection	3.00

CARNATIONS.

Fancy stock	1.50 to 2.00
Ordinary "	.75 to 1.00

CHRYSANTHEMUMS.

Fancy varieties	15.00 to 25.00
Medium stock	8.00 to 12.00
Ordinary stock	4.00 to 6.00

MISCELLANEOUS STOCK.

Valley	4.00 to 5.00
Violets	.75 to 1.50
Orchids, Cattleyas,	doz., 6.00
" Cypripediums	" 2.00
" assorted box	10.00

Above prices subject to change without notice.

GIVE US XMAS ORDERS EARLY.

DECORATIVE STOCK.

Wild Smilax, parlor brand	$3.75
" " medium case	5.50
" " large "	8.00
Asparagus Plumosus,	doz., 6.00
" " string,	.50
Smilax,	per doz, $1.00 to 1.50
Adiantum Ferns,	per 100, 75c to 1.00
Common "	" .15
" "	" 1000 1.50
Galax Leaves	" 1000, 1.00
Farleyense Fronds,	doz., 1.00

We always have good stock of above on hand and can fill orders promptly.

CYCLAMEN PLANTS.

Fine plants for Xmas sales; good assortment colors; well flowered.

Now ready for shipping direct from greenhouses. By Express only.

1000, 5-in. pots at..... $25.00 per 100
500, 6 " 50.00 "

XMAS STOCK.

Order now and secure best stock shipped at proper time.

HOLLY, GREEN & MISTLETOE.

We will meet quotations of any reputable western house.

We have fresh stock of all the following goods:

Cape Flowers, Immortelles,
Pampas Plumes, Fairy Flowers,
Sheet Moss, Sphagnum Moss,
Vases, Ribbons, Doves,
Wheat Sheaves, Tin Fo , Toothpicks,
Viole Foil, Baskets, Bouquet Pins,
Chenille, Cycas Leaves

and everything used by florists.

OUR STORE OPEN 7 A. M. TO 7 P. M.
SUNDAYS AND HOLIDAYS
7 A. M. TO NOON.

TELEPHONE MAIN 1129. **VAUGHAN, McKELLAR & WINTERSON,** 45-47-49 Wabash Ave., CHICAGO.



Dreer's Special Offer of

ARAUCARIAS for the HOLIDAYS

OUR stock of Araucarias is in fine condition, especially the medium and larger sizes, for which the demand during the holidays is always very strong.

ARAUCARIA EXCELSA.

4-inch pots,	6 to 8 in. high,	2 to 3 tiers		60 cents each
5 "	12 to 15 "	3 to 4 "		$1.00 "
6 "	15 to 18 "	4 to 5 "		1.50 "

ARAUCARIA EXCELSA GLAUCA.

5-inch pots,	8 inches high,	2 tiers		$1.00 each
6 "	12 to 15 "	3 "		1.50 "

ARAUCARIA ROBUSTA COMPACTA.

6-inch pots,	10 to 12 inches high,	3 tiers		$1.50 each
6 "	12 to 14 "	3 "		1.75 "
7 "	15 to 16 "	4 "		2.00 "

HENRY A. DREER, 914 Chestnut St , Philadelphia.

Adiantum Farleyense.

FINE PLANTS

In 5-inch pots at $9 00 per dozen.

EDWIN LONSDALE, Wyndmoor, Chestnut Hill, PHILADELPHIA.

Money order office, Sta. H, Philadelphia.

Mention American Florist.

ESTABLISHED 1866 **EMIL STEFFENS** SUCC.TO N. STEFFENS. AND STEFFENS BROS.

MANUFACTURER OF

FLORISTS WIRE DESIGNS & SUPPLIES

335 EAST 21ST ST. NEW YORK CITY.

Nashua, N. H.

Geo. E. Buxton recently removed his flower store to the Odd Fellows' building, one of the most imposing structures in town, his store being one of the finest and best equipped places of the kind in the state of New Hampshire. His carnations are in excellent shape, Scott, Daybreak, Flora Hill and Mrs. Bradt looking exceptionally fine. Mr. Buxton reports an improvement all along the line and especially in the demand for cut flowers.

August Gaedeke & Co. are as busy as the proverbial bees. The genial August is decidedly original in his ideas, being never satisfied unless his designs, decorations, or whatever he may be engaged upon, bear the stamp of originality. The most noteworthy social event of the season was the Campbell-Staples wedding and the floral decorations were by far the most elaborate ever seen in this town. As masters of the ceremony A. Gaedeke & Co. were complimented on all sides.

HOMO.

HUDSON, MICH.—Philip Thomas has greatly improved his greenhouses and stock and has a model establishment.

FREEPORT, ILL.—John Bauscher, Jr., has purchased the large boiler formerly used by the Henney Buggy Company and will use it to heat his greenhouses. He is building a fine new boiler house.

BROCKVILLE, ONT.—J. Hay & Sons recently gave a show at their greenhouses, corner King and Bethune streets, to which a large number of people were attracted by neatly printed invitations.

PALMS and FERNS



The Largest Stock of PLANTS IN THE WEST

GEO. WITTBOLD 1708 N. HALSTED ST. CHICAGO

Orchids!

We a now booking orders for CATTLEYA LABIATA for spring delivery. Early orders solicited.

LAGER & HURRELL, SUMMIT, N. J.

ANTON SCHULTHEIS,
P. O. BOX 78,
College Point, Queensborough, New York, N. Y.
HEADQUARTERS
For Ericas (Heather); also full line of other Flowering Plants.
PALMS and DECORATIVE PLANTS IN QUANTITY.
Come, see and convince yourself.

Our Specialty!
ROOTED CUTTINGS of NEW VARIETIES of CARNATIONS
Special prices to those who issue lists or who buy to sell again. Let us know what you are likely to need and get prices.
GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS
H. WEBER & SONS,
Oakland, - Md.

HERE WE ARE
EIGHT OF US!
'Mums of the Highest order. Will be ready March 1st, '99.
WE ARE:
KUNO—(Bergmann x Lager), early white, Oct. 10th,
ZORAIDA—(Mrs. Dexter x Enterprise), exhibited as Izanga. A huge anemone.
MONSTROSUM—(Mrs. Hill x Mrs. Egan), large magenta pink.
WHITE FLYER—(Glory of Pacific x Seedling), a dwarf white.
IDAVAN—(Mrs. Hill x Mrs. Egan), fine Japanese incurved.
NAGOYA—(Modesto x Western King), large, late, bright yellow, Nov. 24th.
XENO—(Merula x Perrin), best late pink, Nov. 24th.
PRICE, 50c EACH; $3.00 PER DOZEN; $35.00 PER 100.
NATHAN SMITH & SON, Adrian, Mich.

CHRYSANTHEMUM STOCK PLANTS.
1898 NOVELTIES, Doz., $3; 100, $20. Wm. H. Chadwick, Mrs. C. H. Peirce, Snow Queen, Madeline Pratt, Yellow Fellow, Yellow Mrs. Jerome Jones, Autumn Glory, Mrs. Arthur J. Caton and Thornden, at 50c. each.
NEWER SORTS Doz., $2; 100, $15. Frank Hardy, Defender, Mrs. C. H. Weeks, Western King, Geo. S. Kalb, Midge
STANDARD KINDS, Per Dozen, $1.50; Per 100, $10.00.

Liberty	Mrs. Martin A. Ryerson	Ivory	Miss Agnes L. Dalskov
Mayflower	Mrs. J. G. Whilldin	Golden Trophy	Mrs. S. T. Murdock
Eugene Dailledouze	Marion Henderson	Major Bonnaffon	Lady Fitzwygram
Philadelphia	Yanoma	Modesto	Mrs. W. H. Rand
Golden Wedding	The Times	Mrs. H. Robinson	Chas. Davis
Evangeline	Jeannie Falconer	L'Amethyst	Niveus
E. M. Bigelow	Marion Cleveland	Joanna	Geo. W. Childs.
Viviand-Morel	Mrs. Jerome Jones	Glory of the Pacific	The Queen
Gretchen Buettner	Mrs. Perrin	Mme. F. Bergmann	

VAUGHAN'S SEED STORE,
CHICAGO. GREENHOUSES, WESTERN SPRINGS, ILL. NEW YORK.

Carnation Seed
Hand fertilized from the finest named winter-blooming vrieties. Try your hand at securing a PRIZE WINNER. To encourage competition we will for sixty days send sample order of ONE HUNDRED fresh seeds on receipt of..... 25 CENTS
our former price having been One Dollar per 100.
AMERICAN ROSE CO. WASHINGTON, D. C.

..STOCK 'MUMS..

Frank Hardy	Pennsylvania and
Mrs. H. Weeks	$2.50 per doz.
Belle of Castlewood	Major Bonnaffon
Dorothy Devans	Mayflower
Evangeline	Midge
Fitzwygram	Modesto
Georgiana Pitcher	Mrs. R. Crawford
Golden Trophy	Rose Owen
Golden Wedding	Western King

$1.50 per dozen.
Orders for two dozen or more accompanied by the cash will be sent express prepaid.
THE PARK FLORAL CO., Denver, Colo.

PLANTS FOR DECORATORS.
The season for plant decorations is at hand and any of these will be a useful addition to stock, being bright, fine colored elegant specimens. Packed in pots, by freight, if desired.

	per dozen
ARECA LUTESCENS, 8-in. pots, 4 to 5 ft.	$18.00 to $24.00
ARECA LUTESCENS, 6-in. pots, 3 to 4 ft.	12.00
OREODOXIA REGIA, light graceful, 5 to 6 feet	18.00
NEPHROLEPIS BOSTONIENSIS, 8-in. pans, 3 to 4 ft. over	18 00
ADIANTUM TENERUM, 8-in. pans	9.00

CASH WITH ORDER.
JOHN H. LEY,
Good Hope, - - Washington, D. C.

PALM Seed. FRESH ON HAND

	100	1000	3000
Kentia Belmoreana	$1.00	$6.50	$15.00

J. L. SCHILLER,
404 East 34th Street, NEW YORK CITY.

Azalea Indica, full of bud, 10 to 12-inch, $3 50 per doz.
" " " 14 to 16-inch, 6 00 "
Cinerarias.....3-inch, $3.00 per 100
Palms, best assortment, 5 & 6-in. pots.....$7.00 per doz.
New Chrysanthemums, Frank Hardy and Merry Christmas, large clumps.....$1.00 per doz.
Rooted cuttings of same.....$3.00 per 100.
Cyclamen Giganteum, 4-inch.....$10.00 per 100.
WHITTON & SONS, Wholesale Florists, City and Creen Sts., UTICA, N. Y.

It is time you were thinking about
CARNATION STOCK
for next season. It pays to buy only the best. Will have them in large quantities, of all the leading commercial varieties. Ready Jan. 1st and later. Write me for prices.
Address CHAS. CHADWICK,
Lock Box 11, Grand Rapids, Mich.
Mention American Florist.

CARNATIONS
F. DORNER & SONS CO.,
La Fayette, Ind.
Mention The American Florist.

Mention us to our advertisers.



A Complete Stock

OF IMMORTELLES,
CAPE FLOWERS,
HOLLY WREATHS,
EVERGREEN WREATHING

and all HOLIDAY DECORATIVE MATERIAL.

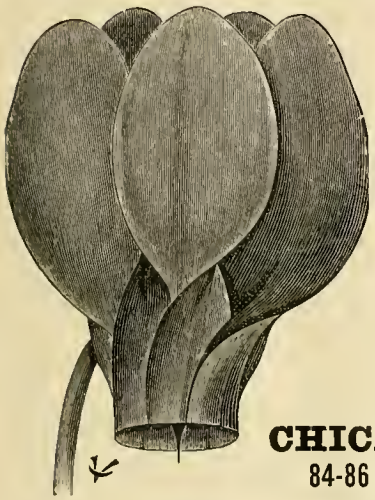
We make prices right and give you PROMPT shipment.
WRITE OR WIRE.

XXX Delaware- **HOLLY**

"Cream of the Holly."

Per Case, $5.50;
In New York, $5.00.

NEW SEED OF **Cyclamen** PERSICUM GIGANTEUM,



In the following separate colors: Pure White, Bright Crimson, White with Crimson Eye and Rose (Von Marienthal).

This Cyclamen seed has been grown especially for us by a most concientious florist, and we know that it will give entire satisfaction. $5.00 per 1000 seeds; 100 seeds, 75 cents.

NEW CROP OTHER FLOWER SEEDS FOR PRESENT SOWING, SUCH AS STOCKS, VINCA, PETUNIA, LOBELIA, VERBENA, ETC., ALSO ON HAND.

NOW READY:

Lily of the Valley, Spiraea, Dielytra, Gladiolus Colvillei Alba and Rubra.

CHICAGO, 84-86 Randolph St. **VAUGHAN'S SEED STORE,** New York, 14 Barclay Street.

THE WABASH R. R. COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A.,
387 Broadway, New York City.
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5 State Street, Boston, Mass.
C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

PALMS. FERNS. FICUS.

Medal awarded on Palms World's Fair, 1893.

(Established 1884)

100,000 Strong LATANIA SEEDLINGS, and 25,000 FERNS for dishes, at $3.00 per 100; $25.00 per 1000.

TERMS CASH.

ALBERT FUCHS,
2059-73 N. Halsted St., CHICAGO, ILL.

THE BOSTON FERN From $5 per 100 and $40 per 1000 to $1 each
A SPECIALTY. L. H. FOSTER,
45 King Street, DORCHESTER, MASS.

THIS IS IT.

NO OIL. NO FLAME.



For descriptive circular and price list, Address

LEHMAN BROS.
Manufacturers
10 Bond Street, NEW YORK.

LEHMAN'S Wagon Heaters

Will keep your delivery wagons at a temperature that will prevent your plants and flowers freezing in the coldest weather. Positively no smoke, no smell, no gas, no danger. Cost of opering less than one cent per hour. Thoroughly reliable, inexpensive and durable.

OR JAMES W. ERRINGER, GENERAL WESTERN SALES AGENT,
297 Wabash Avenue CHICAGO.

Asparagus Sprengeri

50,000 Plants in 2½-inch pots, $5.00 per 100, express; 24 for $1.50 by mail. Specimens for 8-in. pots, $6.00 per 12.

A. BLANC & CO., Philadelphia

THE Regan Printing House
NURSERY SEED FLORISTS **CATALOGUES**

87-91 Plymouth Place,
CHICAGO

Successful Growers

Know that they can dispose of all their Surplus Stock by advertising in the American Florist. TRY IT NOW.

Worcester, Mass.

The worst blizzard since 1888 struck us on November 26. Twenty inches of snow fell on the level and the northwest gale, which accompanied it, piled the snow into drifts fifteen and twenty feet high. Nearly all the growers report a slight loss of glass. C. D. Thayer is the heaviest loser, the weight of the snow causing one of his houses to collapse. The appearance of the greenhouses on Monday morning was unique, reminding one of the frosted Christmas cards. Some of the smaller establishments were entirely covered and had to be shoveled out. The old style gutter houses were damaged greatest and this storm proved conclusively that this style of house is not fitted to stand the heavy fall of snow that we get.

The Worcester County Market Gardeners' Association held its annual meeting December 2 for the election of offices: President, J. Lewis Ellsworth; vice-presidents, H. A. Cook, A. S. Wolfe, R. H. J. Forbush, and J. H. Record; secretary and treasurer, H. R. Kenney. There was a lengthy discussion on the question of inviting the florists to unite with the market gardeners and a committee was appointed to confer with them.

A. H. L.

Indianapolis.

The monthly meeting of the Florists' Club took place Wednesday, December 6. Election of officers for the coming year resulted as follows: President, J. Clay Powers; vice-president, Frank Alley; secretary and treasurer, Fred. Huckriede.

H. J.

DECORATIVE Evergreens

SPECIAL XMAS PRICES.

SOUTHERN SMILAX. 10-lb case....$1.00
25-lb case.... 2.00
50-lb case....3.50

LONG NEEDLE PINES.
5 ft. high....each, 25c.
2 to 5 ft. high, asst. sizes....per ½ doz., $1.25
2 to 5 " " per doz., 2.00

MAGNOLIA FOLIAGE.
Case 48x24x24 in....$2.50
" 40x18x18 in.... 2.00

CHAMAEROP PALM CROWNS.
Each....25c.
½ dozen....$1.50
Dozen.... 2.50

CHAMAEROP PALM LEAVES.
Per dozen....30c.
Per 100....$1.50

SABAL PALM LEAVES. Per doz..35c.
Per 100....$1.75

HOLLY. Case 10 lb net....$1.00
Case 25 lb net.... 2.00
Case 50 lb net.... 3.50

GRAY MOSS. Per 10-lb sack....$1.00
Per 25-lb sack.... 2.00

MISTLETOE. 10-lb basket....$1.00
20-lb basket.... 1.75

25 sprays nice, well berried Holly
15 sprays Southern Smilax
15 sprays Magnolia Foliage
1 Chamærop Palm Crown
2 Long Needle Pines
6 Sabal Palm Leaves
6 Chamærop Palm Leaves
2 lbs. Southern Gray Moss

Packed in one case, weight 20lb Price for all $2.00.

We ship none except very best selected stock. Order quick. CASH WITH ORDER.

LEE, WATKINS & CO., Evergreen, Ala.
Mention American Florist.

BOUQUET GREEN.

Best quality at lowest rates. We gather our our greens and bring by our own boat direct. Also CHRISTMAS TREES.

Northern Michigan Evergreen Nursery,
SCHOONER MARY COLLINS, H. Schuneman, Capt. | S. W. Cor. Clark St. Bridge, CHICAGO.

KELSEY'S BRILLIANT SOUTHERN GALAX LEAVES and LEUCOTHOE SPRAYS....
— FOR —
XMAS and the HOLIDAYS



Introduced by Harlan P. Kelsey. Nothing else will take their place.

Can be had of all leading Wholesale Florists who are supplied by me, or write or wire me direct. Be sure to ask if they are Kelsey's, and so get the finest colored and firmest leaves. Used out of original cases—no rehandling.

For all the finest floral decorations. Nothing equals Galax for wreaths, crosses and all funeral designs, as they remain perfectly fresh outside without care. Use the small green leaves with violets. Nothing else so cheap, lasting, beautiful and easily handled. Remember the long, wiry stems.

In early December and during the winter I will have a large supply in Boston direct from my Highlands Nursery in the Carolina mountains placed in cold storage, packed in original cases as below, and can ship promptly from Boston on order by mail or wire. I reserve right to ship from either Boston or North Carolina unless ordered to contrary.

PRICES: GALAX, large or small, either color, per 1000 $1.25; 5000 or more at $1.00 per 1000. TERMS CASH.

LEUCOTHOE SPRAYS, per 100 $1; per 1000 $8.
Case A.—5000 Galax, assorted sizes and colors.
Case B —Same as A. with 200 Sprays.
Case C.—10 000 Galax, ass't sizes and colors.
Case D —5000 Galax, large bronze.
Case E.—5000 Galax, small bronze.
Case H.—5000 Galax, large green.
Case I.—5000 Galax, small green.
Case L.—5.0 Leucothoe Sprays.
Order cases by letter, or larger quantities by 1000
Cases A $5, and B $7 are very popular. Try one or more for sample.

Large orders may be shipped by freight at a great saving, if time permits, direct from my Highlands Nursery. Be explicit in shipping directions, or my best discretion is used. Telegraph orders save time. Large orders may be shipped direct from my Highlands Nursery.
Address Telegrams and Letters to the introducer,

HARLAN P. KELSEY, 1106 Tremont Bldg., BOSTON, MASS.
Proprietor Highlands Nursery in North Carolina. Long Distance 'Phone.
ORDERS SHOULD BE PLACED NOW FOR XMAS. Ask for Samples.

WELL BOUGHT IS HALF SOLD.

Bouquet Green Holly

Evergreen Wreathing, Holly Wreaths, Mistletoe, Etc.

The right kind at the right price, and last, but not least,
We have an unbroken record as HEADQUARTERS. **at the right time.** Send us your list of wants for BOTTOM FIGURES.

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161 and 163 East Kinzie Street, CHICAGO.

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WE have made greater efforts than ever to secure the best Delaware HOLLY, and with our system of reinspecting it before shipping it is sure to give satisfaction.
BOUQUET GREEN, direct from the woods.
We also carry a large stock of
Green Wreathing, Cedar Wreathing, Mistletoe, Holly Wreaths,
Write us for our quotations before buying elsewhere.
FLORISTS' SUPPLIES. FRESH CUT FLOWERS.
Send postal for our new catalogue of Florists' Supplies.
HOLTON & HUNKEL CO., P. O. BOX 103. Milwaukee, Wis.

LONG'S Floral Calendars. Samples for 1899 Are Now Ready

Original, Flowery, Artistic, Handsome and Low Priced.

Something customers will appreciate.

THREE SAMPLES, 12c in stamps. Eight for 20c.

DAN'L B. LONG, Publisher, BUFFALO, N. Y.

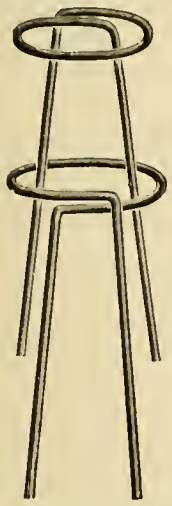
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LAUREL, HOLLY, XMAS TREES, ROPING OF ALL KINDS, WREATHS, GALAX LEAVES, PALM LEAVES and CROWNS, LONG NEEDLE PINES, WILD SMILAX and everything in the DECORATIVE LINE.

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Lengths 10, 13, 18, 20 inches

Price, $1 per 100, $8 per 1000.

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The Best

Scarlet CARNATION

Rooted Cuttings ready now $4 per 100; $35 per 1000.

Evelina	Flora Hill
White Cloud	Jno. Young
Victor	Triumph
Argyle	Mrs. Joost
Empress	Mrs. Jas. Dean
Gold Nugget	Mrs. Bradt
Armazindy	Psyche, Etc.

Ready Jan. 1st.

No order too large. None too small.

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Worcester, Mass.

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Has a song to sing, and here it is. To Jan. 1st we will sell our fine **MAMMOTH VERBENAS**—well rooted—at 60c. per 100, $4.00 per 1000, and they are fine. Don't be deceived in buying 1898 seedlings with any old name given them, as they may be quite seedy by spring. We guarantee every one of ours to please you.

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AGERATUM, Cope's Pet, blue, Lady Isabel, white, 50c. per 100, $4.00 per 1000.

Remember, we pay mail or express charges on all rooted cuttings. THAT CASH PLEASE.

TESTIMONIAL.

MR. C. HUMFELD.

Dear Sir:—The Verbenas I bought of you last spring, I wish to say they grew finely and produced the largest and most beautiful blooms of any in this vicinity. I have recommended you to several florists. Yours,

Fairfield, Conn. W. H. EVERETT.

C. HUMFELD, Clay Center, Kan.

14 DAYS ONLY

		per 100
5,000	Double white Geraniums, 4 varieties, 2¼-in.	$1.75
10,000	Geraniums, named, 40 vars., up to date, our selection, 2¼-in.	1.75
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5,000	Heliotropes, 3 fine bl'mers, 2¼-in.	2.00
5,000	Feverfew Little Gem, extra strong, 2¼-in.	1.75
5,000	Begonias, flow'r'g, 16 vars. 2¼-in.	1.75
1,000	" " 3½-in.	2.50
3,000	Ivy Geraniums, mixed, 2¼-in.	1.50
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Geranium "MARS"

	Per Doz.	Per 100
ROOTED CUTTINGS	$.50	$3.00
2½-INCH POTS	.75	5.00

Cash with order, please.

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HYDRANGEA OTAKSA

XX strong plants, per doz., $3.50; per 100, $27.50

" " for 8-inch pots, per doz., $3.00; per 100, $20.00

Medium size, " 2.00; " 12.00

ERICA FRAGRANS, 5 & 6-in. pots, per doz., 4.50

Extra fine plants.

DUTCH BULBS & INDIAN AZALEAS now at hand.

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YOU RUN. NO RISK.

ALL Carnation Cuttings are sent out with the privilege of returning them at my expense if they are not found satisfactory on receipt, and your money returned you in full. I have from one to five thousand stock plants of each of the leading varieties, and offer cuttings at very reasonable prices.

Correspondence solicited before you place your orders.....

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When writing please mention American Florist.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20 per 1000. Rooted Cuttings, 75c per 100; $6.00 per 1000; $50 per 10000.

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We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

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Well-rooted cuttings, best varieties, mixed, $1.00 per 100; $9.00 per 1000.

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Extra strong plants, 15 cts. per 100; $1.00 per 1000; $8.50 per 10,000. If by mail, add 10c per 100.

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Why use poor Smilax? Get the best. I have 16,000 feet of glass devoted to the culture of Smilax. Orders booked now for Christmas. Write for prices.

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BEGONIAS.

	Per 100	Per 100
Argentea guttata	2-inch, $2.00; 3½-inch,	$4.00
Feastii, Speculata	2-inch, 2.00;	
Rubra	2-inch, 3.00;	
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De Lesseps, Pres. Carnot	3½-inch,	4.00
Roses—La France	$3.00 per 100; Meteor	2.50
White, Pink and Yellow Rambler	3½-inch	4.00

Full standard list. 2½ in., 3½ in. and 4 in.

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A NO. 1 STOCK.

		Per 100
1000	CINERARIAS, 2¼-in.,	$2.00
2000	GERANIUMS Harmine, "	1.75
2000	" White Swan, "	1.75
2000	" La Favorite, "	1.75
3000	" Mme. Salleroi, "	2.00
1000	VELVET PLANT, good retailer, "	3.00
500	NEW COLEUS Brownii, "	5.00
5000	FEVERFEW Little Gem, strong, "	1.75
2000	HELIOTROPES, White Lady, Ezer and Albert Dix, "	2.00
2000	IVY GERANIUMS, mixed, "	1.50
5000	GERANIUMS, named, 40 varieties, our selection, "	1.75
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CASH. 5 plants at 100 rates.

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The finest **SEED,** as usual, $1.00 per package, 3-16 ounce.

No more PLANTS before December 1, except transplanted, blooming stock, $10 per 1000 f. o. b. Express. CASH WITH ORDER.

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FOR CANNAS AND FOR Pampas Plumes

It will pay you to address

THE PAMPAS GROVE NURSERIES,

..... Greenland, P. O. Fla.

ROOTED CUTTINGS. WELL ROOTED.

	Per doz.	Per 100.	Per 1000.
Heliotrope, 5 varieties	20c.	$1.00	$8.00
Fuchsias, 6 "	20c.	1.25	
Vinces, major and minor	15c.	.75	
Double Petunias, 10 vars	20c.	1.25	10.00
Coleus, 14 vars.	15c.	.70	5.00
Verbenas, 12 vars.	15c.	.70	6.00

Mail or Express prepaid.

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TRANSPLANTED PANSY PLANTS.

$5.00 per 1000. Cash with order please.

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Finest mixed. Good little plants for cold frames, $1.00 per 1000, express.

Seed, $1.00 per pkg, $5.00 per ounce.

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Grower of the Finest Pansies.

St. Paul.

HOLIDAY TRADE IS VERY GOOD.—HARRISII LILIES ARE BADLY DISEASED.— NOTES AND COMMENTS.

The home cut was insufficient for our Thanksgiving needs and several large shipments came in from Chicago and Milwaukee. Since then trade has been fair, the usual quiet after a holiday being hardly noticeable. American Beauties are in good demand with higher prices prevailing each week. Violets are more popular than ever with an insufficient supply of home-grown stock. The demand for carnations is increasing and good stock is worth almost as much as roses. Brides and Bridesmaids are in good supply while Meteors and Wootons are about equal to the demand.

Harrisii are late this year and are badly diseased, more than fifty per cent of the stock being infected.

Bouquet green and holly are livening up the store windows fully a week earlier than usual. The former article is reported very scarce. There seems to be a fair supply of choice holly.

The next meeting of the Minnesota Florists' Club will be held December 10 in this city. FELIX.

BENTON HARBOR, MICH.—The Twin City Floral Company has received a fine lot of palms from Chicago and has put in a stock of gold fish and aquariums. They are equipped for and expect a large Christmas trade.



100% Profit For You

and entire satisfaction for your customers. What more does anybody want?

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ABSOLUTELY ODORLESS

is an ideal food for house plants. Send for free literature and price lists.

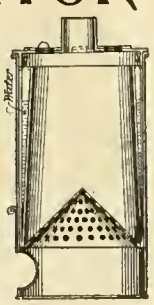
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Price Lists Furnished on Application.

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HILFINGER BROS. POTTERY, Fort Edward N. Y.

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Please Mention American Florist.

THE HARRISII DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent.

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THIS has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. Send for circular and descriptive price list.

THIS INSECTICIDE IS NON-POISONOUS.

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ALL KINDS.

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FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y,

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Standard FLOWER Pots

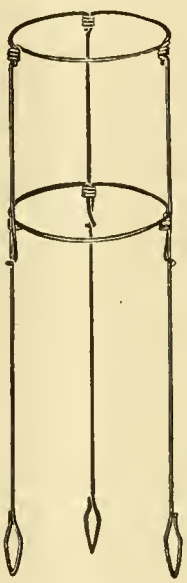
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A good adv. in a good paper will bring good returns.

The MODEL Extension Carnation Support



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Very truly yours,
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97
MR THERON PARKER,
Dear Sir:—Your wire stake is certainly a gem Without hesitating we indorse it as an up-to-date carnation support. Yours truly,
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as any body will be able to make them They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time Wishing you every success in the sale of them, I am
Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes

AT LOWEST PRICES.

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The Model Plant Stake Co.,

THERON PARKER, Mgr., Inventor and Patentee,

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IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS - ENDORSED BY PROMINENT FLORISTS - USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN ~~~~ CIRCULAR FREE ~

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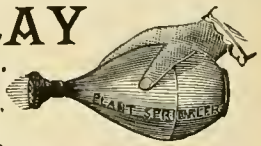
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ST. JOHNS, MICH.—Knapp Brothers have established a greenhouse here and are building up a fine patronage.

ALDEN, N. Y.—Harry Tanner's greenhouses were ablaze the other night and narrowly missed destruction.

BANGOR, ME.—W. I. Clement, proprietor of the Stillwater greenhouse, has opened a store on Main street.

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Manz makes illustrations for this paper.

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This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Annual subscription to cover cost of postage 75 cents.

Address EDITORS OF THE "H. A." Chilwell Nurseries, - Notts, England.



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This is no longer an experiment, it has come to stay. There are various ways of making Butted Roofs, but the best way is with the

Clipper Bar.

With this bar you can make a roof that is absolutely free from drip, and glass cannot be torn out by the wind. Butted glass makes a tight roof, a warm house and saves fuel. It lasts longer, looks better and costs less than the old-fashioned roof. But do not think that this is the only bar we sell, for it is not; we furnish what people want and there is nothing in greenhouse material that you cannot get from us, and all of open-air-dried Cypress clear of bright sap, stained sap, knots and all other defects.

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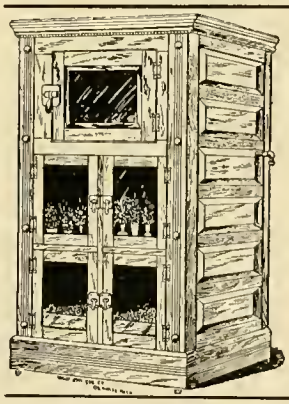
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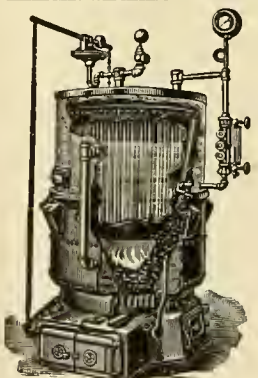
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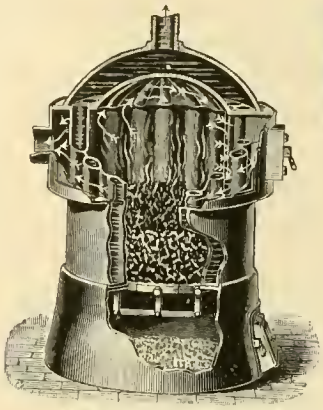
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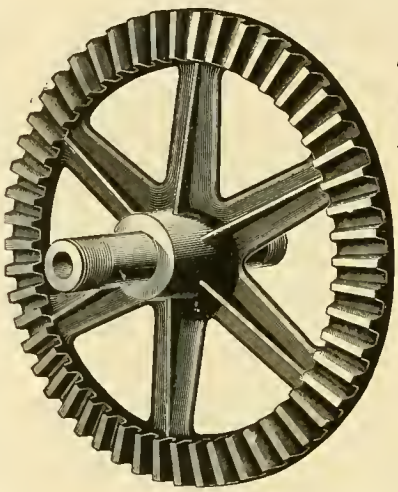
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Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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ROSES.

CRIMSON RAMBLER FOR EASTER.

ED. AM. FLORIST:—Will you or some brother florist tell me through the columns of your paper of the best way to treat the Crimson Rambler rose in order to have it in bloom for Easter? Are cuttings from three year-old and four year-old roses as good as those taken from younger stock? B.

The first question is presumably from one who has not yet taken any steps towards preparing the Crimson Rambler rose for Easter. With plants from open ground taken up at this time, or any time before the ground is frozen so hard as to prevent taking up, the lifting should be carefully done, the roots cut as little as possible and the plants potted at once, allowing the roots no opportunity to get dry, a condition which might cause the bark to shrink. They should be potted in good rose soil—the addition of 1-25 fine ground sheep manure is a great benefit, as it makes the foliage larger and of a deep rich green color. After potting they should be kept for six weeks or more in a night temperature of about 45°. The pots should then be pretty full of active working roots and the temperature may be raised to nearly 50° at night and so maintained until the clusters of buds appear, when if necessary to get them to bloom at the required date the temperature may be raised to 60° at night. Under the foregoing treatment they should bloom in about sixteen weeks from the time of potting. As the blooms remain after being fully opened in good condition for three or four weeks, it is better to have them opened considerably in advance of Easter. For three or four weeks after potting they should be frequently syringed with water to keep the bark from shrinking and the buds full and plump. Two-year-old plants are much better than one-year-old as at the latter age the wood is not strong enough to produce large clusters of blooms. The two-year-old plants properly grown should have from three to six stems five feet long and as thick at the bottom as one's little finger. It is better to cut the wood back only a foot or so, as it will bloom freely almost to the tips. The plants may be very prettily arranged by bending the stems over, which will cause the lateral eyes to break freely, and these eyes will all produce beautiful clusters of bloom. A plant of the Crimson Rambler in bloom is one of the most beautiful things imaginable. This variety is a very valuable addition to the list of Easter plants and it is also, now that its reputation is established as a hardy climber, one of the most salable of plants. During the bedding out season, in addition to the plants we forced last year, after lifting them from the open ground, we grew a number of plants in seven and eight-inch pots under glass in summer. This is the most expensive way of growing them, but there was some recompense for the extra trouble in larger bunches of bloom.

I believe it is quite possible to have pot-grown plants in bloom for Christmas, but to accomplish this the plants should get a rest from the middle of August to the middle of September, by turning the pots on their sides and then withholding water as is the custom with the growing of Magna Charta, Jacqueminot, Mrs. John Laing and other hybrid roses for blooming at that time. Would it be any trouble to sell Crimson Ramblers, well-bloomed, for a big price at Christmas? Well, I guess not. And somebody will yet do it as the plant takes very kindly to the forcing process when properly prepared. As an experiment last year we put several plants in February in a temperature of 65° to 68° and they bloomed famously, and were not pot-grown either, but they had been well rooted in a night temperature not exceeding 45° 50°.

In answer to the second question we would say that it would make no difference whether cuttings were taken from three year-old, four year-old or younger plants, providing the wood was in a healthy condition. If hard wood cuttings are taken at this period of the year they should be rooted in a cool house with a night temperature of 35° to 40°. A little bottom heat would be beneficial, but the tops must be kept cool. If soft wood from indoor growth in the winter is used they will root freely in the ordinary rose cutting bench. The variety is not at all difficult to propagate.

ROBERT CRAIG.

ROSES DROPPING THEIR GREEN LEAVES AND DYING BACK.

Notwithstanding all that has appeared on this subject at various times in the columns of the AMERICAN FLORIST, yet the trouble must be frequent, as I have received three samples of diseased leaves and branches from different parts of the country, and several personal inquiries from others regarding the trouble.

The cause of this disease is very simple. A damp, stagnated atmosphere combined with a low temperature repeated two or three nights will invariably produce it and in some positions more readily than others. Usually the damage is done in weather that is generally considered not cold enough to require any fire heat,

oftentimes when the temperature in the greenhouses does not fall below 60° without fire heat; this, in conjunction with a humid atmosphere, will cause a heavy dew to settle on the foliage with small beads of moisture hanging all around the edges of the leaves. When the sunlight first enters the house in the morning this will look very attractive, but let it be repeated two or three times and then when the sun strikes well on the young leaves and branches they will begin to wither and by the middle of the day, if bright, many of them will drop off and the stem will have a blackened appearance, frequently for eight or ten inches back from the tops. This means that every shoot will die back that far, and the entire crop of flowers is thereby ruined; and what is still worse, the health of the plants will receive a general check, in fact, root action is so badly impaired that it will take several weeks of careful nursing to get the plants back into healthy, working condition.

When this trouble appears, cut all the diseased shoots back to healthy leaves; clean every diseased leaf and branch off and burn them; then syringe lightly overhead for two or three weeks, but hold the soil as dry as possible consistent with retaining what healthy foliage there is left; give plenty of air during the day and a little gentle fire heat at night; if very mild, leave a crack of air on all night; do not syringe or water the plants under any circumstances after 1 p. m. Returning vigor to the plants will be readily detected by their breaking into new growth; this will indicate the time for a little more generous treatment, but in this go carefully till your plants show plainly that they have gained active root action again.

As a safeguard against this trouble, never allow the atmosphere in your rose houses to become saturated with too much moisture; even in quite mild weather put on just fire heat enough to keep the dews from settling on your plants; if too warm leave air on all night. If you must be without fire heat under such circumstances, withhold considerable water, or in other words, let the soil and also the house be quite on the dry side at all times and leave a crack of air on even if the temperature goes down to 53° or 54° during the night. You of course will not get as many blooms under this treatment, but you will have the satisfaction of keeping your plants healthy and when the fire heat is put on a fine crop of first quality blooms will be produced if other treatment is consistent. The above disease may be classed as an aggravated case of anthracnose.

JOHN N. MAY.

[The above article by Mr. May answers the queries of "J. F." and "Grower."—ED.]

HOG MANURE FOR ROSES.

ED. AM. FLORIST:—Kindly state what value hog manure possesses, also whether decayed corncobs are of any utility in a stiff, yellow loam to be used for general greenhouse purposes. W. B.

The value of hog manure depends entirely upon the class of bedding and the quantity used; also, to a large extent upon the nature of the food given them. Presuming that they have been fed upon corn or other grain and that only a very limited amount of clean bedding, such as straw of wheat, oats or rye, has been used, the manure will be of fair quality for greenhouse purposes, but before it is used for roses it should be thoroughly composted with the soil. Its fertilizing qualities, even at its best, are of a very poor grade compared with manure from well fed cows or horses, and when hogs are bedded down with any rubbish, such as corn stalks or rough grass, it is worse than useless for any kind of greenhouse work, as the weeds will cause more trouble than the fertilizer is worth. I have never used it in greenhouse compost, but some years ago, being short of other manures, I used three or four loads to finish dressing a piece of ground in the open air where I wanted to plant a lot of roses, and although the proportion of manure was nearly doubled where this was used, yet the result was in no way comparable with that where other fertilizers were employed. In another case I used some for top dressing for roses in the open air with very poor returns; in fact, the benefit did not pay the additional expense incurred.

Replying to "W. B." regarding decayed corncobs, there are no fertilizing qualities whatever in these, but they might, if thoroughly broken up, be of some benefit in making a heavy clay loam somewhat lighter. If corncobs could be ground up and used as bedding under horses or cows they would be valuable for such a purpose, as they would then take up most of the ammonia and other properties from the animals and impart it to the soil when used. Another quality such bedding would have would be that they are absolutely free of weeds and in a fine state could be used in any form for greenhouse purposes either to mix with the soil for planting or as a mulch.

JOHN N. MAY.



M. A. PINOTEAU.

Honors For a Canadian Florist.

M. A. Pinoteau has been created a chevalier of the Ordre du Merite Agricole for his services to horticulture, the honor coming to him upon the recommendation of the Minister of Agriculture of the Republic of France. It is the first time in history that this decoration has been bestowed upon a Frenchman whose work has been accomplished out of France, for Mr. Pinoteau is superintendent of Logan Park, Montreal, Canada. His nativity was at Villeneuve-sur-Cher, France, in 1855. He pursued a course in the College d'Horticulture of the Department of the Berri and came to Montreal in 1874. From 1882 to 1889 he was a member of the staff of Mount Royal Park. In the latter year he was appointed to his present position, where he has charge of the growing of plants for the twenty-six public squares of the city. He is doing that which makes the French order a well merited tribute to his attainments and this year provided nearly a half million plants for the city squares. Mr. Pinoteau is a member of the Montreal Horticultural Society and of the Montreal Florists' and Gardeners' Club, and at all times has shown himself an enthusiast in the advancement of the art of the culture of flowers.

The Christmas Greens Industry.

Some western features of this department of the trade are shown in the accompanying illustration, but this very inadequately represents the importance of an industry which has developed to an enormous extent within a few years. When Capt. H. Schunemann, one of the Chicago pioneers in the business, began gathering greens some twenty years ago a dozen barrels of lycopodium was all that could possibly be disposed of during the entire season. To-day, however, with several thousand tons of this material he is unable to supply even his regular customers.

"The materials now used as Christmas greens," says a western dealer, "may be mentioned in order of relative importance about as follows, viz., holly, lycopodium (known also in different localities as bouquet green, ground pine, club moss, etc.), mistletoe, laurel, and cedar clippings. Other articles hardly coming under the same head, and yet of similar utility, are wild smilax, needle pines, outdoor palm leaves, Florida moss and galax leaves. All of the last mentioned class come from the south. The smilax, palm and galax leaves are handled almost exclusively by the cut flower trade, wholesale and retail.

"Lycopodium has been in common use by florists and decorators, east and west, so long that the memory of man runneth not back to the time when it begun. Choicest Eastern Vermont, Northern New York and Pennsylvania picked stock has been usually handled in large sugar barrels, tied in carefully arranged bunches weighing, say, perhaps, from one-half to one pound each. These bunches are packed in the barrels in layers with roots toward the center. Such care is usually taken in the packing that the stock reaches the market in splendid condition, but the quantity is always limited and the price twenty-five to thirty-five per cent higher than Wisconsin and Michigan stock. Lycopodium, as handled in the west, comes almost entirely from northern Wisconsin, and is gathered from the north end of Lake Michigan, in the vicinity of Sturgeon Bay, west nearly to St. Paul. The green belt in that state where lycopodium is picked annually moves northward as the country becomes settled and as the woods and swamps are depleted. This plant seems to flourish best in moist, shaded localities, and when plucked out by the roots, as is done when gathering, is not replaced by new growth of its kind. More open situations and dryer ground produce lycopodium of a lighter and yellowish color inferior to that found in the first named locations.

"The first purchaser of 'moss,' as lycopodium is known in this district, is the country store-keeper in towns usually containing from one hundred to five



At Vaughan, McKellar & Winterson's. At Vaughan's Seed Store.
At the Establishment of W. W. Barnard & Co.
Hauling Greens to Market in Wisconsin. Greens Schooner Mary Collins in Dock at Chicago.

SOME PHASES OF THE GREENS INDUSTRY IN THE WEST.

hundred inhabitants. The best swamps or woods available for picking may be from five to twenty-five miles from this little town and railway station, but the country store-keeper has customers who are new settlers in this outlying country and such of them as have large families of children have become green pickers. Annually young men, and older men, living in the towns and out of mill work or timber cutting will take up this work if prices are well advanced and start out with a camping outfit for a two to four weeks' stay in the woods. This class of pickers will only undertake the work when the store-keeper is prepared, by reason of favorable contracts with the greens jobber in larger cities, to offer high prices. At present this class will seldom undertake the work at less than two and one-half to three cents per pound net, while the farmers and children will often gather the material at prices varying from one and three-fourths to two and one-fourth cents per pound in cash or in "store pay." Other desirable pickers are bands of Indians available in certain localities. They gather the finest green, but are unreliable, as the whole tribe may shift their location at any time, and one week may bring in five tons of green and the next vanish entirely. This is very certain to be the case if the Indian agent pays them during this time.

"The output of lycopodium in 1896 and 1897 exceeded the demand and many jobbers, as well as country store-keepers, found themselves overstocked and during December selling the article at cost or less, but the present season conditions have changed materially. Jobbers, timid at former losses, have made such contract offers to the country stores that the latter could not stimulate their customers to extensive picking. The result of this, coupled with inclement weather and a short picking season, was a much reduced total output of the green, probably thirty or forty per cent less than the average supply. The jobbers are usually in the habit of taking advance orders from florists and consumers on a basis of twenty to thirty per cent advance over the first cost of the article, but the present year has seen December prices about two hundred per cent over cost with very little stock on hand with which to take advantage of these fancy figures. A careful estimate of the average season's output of Wisconsin green might probably be from three to four hundred thousand pounds, say thirty-five ordinary carloads. Chicago is probably the central shipping market for this article at present, although Milwaukee, St. Paul and Minneapolis also handle good quantities when a liberal supply is available. Detroit, Cleveland, Buffalo, Pittsburg, St. Louis and New York City are large users of lycopodium. A few dealers in these cities buy from the greens district, but most prefer to contract regularly in advance each year with jobbers.

"The use of holly in a commercial way is comparatively recent and has grown from a very small beginning to its present proportions within fifteen years. Until within the last five years most of the holly was handled by wholesale seedsmen and florists. Since that time the sale of it has been taken up by the produce commission houses in various large cities, tripling the volume but reducing materially the quality of the stock handled. Delaware and Maryland furnish the best stock of what is known as eastern holly, while Tennessee and some other parts of the south ship what is usually an inferior quality into the western markets at low prices, mainly through produce commission houses. Holly is almost always packed in uniform cases, 2x2x4 feet, but this season a short case has been invented by southern shippers to economize in quantity and aid the seller in cutting prices. The best eastern or Delaware holly is handled by local buyers who have annual customers for their stock and are responsible to them for the careful execution of their orders, while farmers and local commission buyers of holly, who dispose of the same through produce commission houses, avoiding the personal responsibility to the

consumer, are apt to be less considerate of their obligations and seldom put up extra choice, well-berried, green leaved, solidly packed cases. It is as true in this case as in hundreds of others that the best results follow where the producer is known to be directly responsible to the jobber or consumer, and from whom he expects a steady and reasonably profitable patronage. The florist who is a true merchant will call and make his contracts with responsible dealers or commission houses whose pickers have an established record and whose stock has neither been 'pickled' nor 'salted.'

"This season has been, owing to the severe storms of both rain and snow, a very difficult one for the cutting of holly in Delaware. The first ten days in December is the most critical period in cutting and packing this stock, and during this time heavy snows fell in the Delaware woods and the rain filled the most available swamps where the finest holly can be cut with water two or three feet deep. For this reason much high-ground holly, inferior in color of leaf, shape of branches and in berries, was necessarily thrown on the market to fill orders. When the water receded the better berried stock was available, but this condition came about too late for the most distant shipments, and much of the holly in the open market December 15 to 20, will be found of medium quality only Well-berried stock will probably be available the week before Christmas, but hardly in sufficient quantity to materially reduce the price. Now as to the care of holly after it is in the hands of the retail florist, most of your readers are aware that freezing, while packed in cases, damages the holly but little, provided the same is allowed to thaw out in a very cool and preferably dark place, not allowing the temperature to exceed 45°. If, however, frozen holly is shipped in warm express cars the foliage may turn black in a night and the holly be ruined. Holly in cases and holly wreaths, as soon as made up, should be kept in a cool, damp and dark place, at least until the active demand is on and the exposed stock is carted away each day. Holly wreaths, as all know, exposed to the air of a warm, dry room will be out of first-class salable condition in a few hours. This also applies to the fine wreaths of laurel and to some extent the mistletoe.

"The eastern cities, New York and Philadelphia, use foreign mistletoe from England and France, brought over in the fast Atlantic steamers. The berries are much larger than those of the American mistletoe grown in Tennessee, Kentucky, Arkansas, Texas and New Mexico. It is usually shipped in crates of about one hundred and twelve pounds, and its sultry quarters on shipboard often cause the loss of the leaves, without which the stock looks very bad indeed. The choice article sells at wholesale in New York from December 15 to 25 at $12 to $20 per hundred pounds, according to quality. The best article, when in fine order, is that received from France. The western states use probably not more than eight to ten thousand pounds of American grown stock from the localities named above. It is sometimes shipped in light boxes containing about twenty-five pounds, sometimes in barrels containing from fifteen to twenty-five pounds, and sometimes in light paper-lined crates made of lath and containing about one hundred pounds. Because of its liability to damage from frosts, there is no small amount of dissatisfaction and trouble often arises in marketing this stock, and florists who buy it for the first time are generally losers on their investment until they have learned from experience when to receive and offer it, what prices to charge, bearing in mind that one lot of good stock received at the right season should bring very high prices to recoup them for former losses on lots frozen or roasted in the hands of the transportation companies, or for future lots that are liable to be. To consider the perishable, the transitory nature and short demand for this stock and how to sell it at a profit could well occupy a couple of columns in your paper.

"Cedar clippings are now but little used during the holiday season, but on other occasions, where open air decorations are needed, they are frequently made into roping or wreaths in the same manner as the lycopodium. Laurel from Maryland and Virginia is used mostly in eastern states for wreaths and like decorations. It is handled both through the wholesale floral commission trade and to some extent through produce commission houses who make a specialty of this class of holiday stock. Its use in the western states up to the present time has been very limited indeed. Wild smilax, handled in light cases, usually in three sizes, is shipped by express, mostly from Alabama and Georgia. It is as liable to damage from freezing as mistletoe. It is confined largely, now, to the wholesale florists, most of whom find it almost as necessary an adjunct to their business as are the native ferns and galax leaves, the latter also from the south. Florists in our smaller cities who have not yet used the wild smilax and galax leaves would do well to make a trial of them at the first opportunity. They are available in many ways for effective and profitable work."



SECTIONS OF CHRYSANTHEMUM STEM SHOWING THE WORK OF WHITE ANTS.

HARRISBURG, PA.—G. Hansen has purchased the Paxton Greenhouses, 30,000 feet of glass, of Carl E. Taube. Mr. Hansen was formerly employed in the National Greenhouses at Washington and has since conducted a retail store in Center Market.

CHRYSANTHEMUMS.

NOVELTIES AT WABAN CONSERVATORIES.

Madame Philip Rivorie is a glistening white chrysanthemum and a great improvement on Nivens. It is rather tall but the flower is well supported.

Rustic is a grand globular, bronzy incurved Japanese, but near enough in build to be included in the truly incurved group. When the National Chrysanthemum Society of England has included Major Bonnaffon and Pride of Castlewood, they might find in this a valuable addition. It is a dwarf, stiff grower, with beautiful foliage.

Yellow Fellow is bronzy, tall, long-necked and rather disappointing. We have a new incurved in Mme. Ferlat, of the largest size, pure white in color. Frank Hardy here forms immense flowers; the second crown bud is best; the third hangs its head. Pennsylvania is an attractive yellow. Its color is just what Philadelphia lacks to make it valuable commercially.

The creamy tinted Mrs. O. P. Bassett, is just as lovely as Mrs. Henry Robinson. Alongside of Philadelphia one cannot discern the difference in color. Robt. Carey is a noble white, an irregularly incurved Japanese, and a most graceful flower, better as an exhibition variety than Mme. de Galbert. Mrs. Weeks is a lovely flower, grand for exhibition but too soft commercially.

Autumn Glory, salmon pink, is beautifully tinted, "deeper in the depths" as our color authority, Mr. Matthews, would say. It is very nearly but not quite reflexed. The merits of Jeannie Falconer have evidently been overlooked. Its reintroduction as Peter Kay has drawn attention to it. Major Bonnaffon has a decided rival for the exhibition tables. It is a light yellow, of perfect build, lighting up wonderfully. Princess of Wales is a grand white reflexed.

T. D. H.

WHITE ANTS.

White ants are becoming one of the common and, as my experience goes, the worst enemies of the chrysanthemum grower. Their work is the most destructive and impossible to detect until the plant is practically dead. They begin when the young plants are set in the benches and never let up until the flower is cut. Entering the stalk at the very base of the root, they eat out the entire woody substance, leaving only a thin shell, and, if the plant has root and vigor enough, their presence may not be known until they make their appearance through the very topmost tender shoot. I have often discovered them creeping out through an open flower. The illustration shows two sections of a stalk of Modesto. The plant gave a full-sized perfect flower with five-foot stem. The presence of the white ants was not known until the flower was cut. I split a portion of the stalk and the two sections were tacked to a piece of cardboard and photographed.

During the warm days of summer, when a plant shows a tendency to wilt, while others nearby are standing crisp and stiff, the probabilities are if you press the stalk firmly it will collapse like a soft cane. I have become so accustomed to this pest that the moment a plant shows a disposition to wilt I remove it with about a trowel full of earth, and find from one to fifty of the little white destroyers. Out of a house of sixteen hundred plants this season only about



ESTABLISHMENT OF AUG. GAEDEKE & CO., NASHUA, N. H.

one thousand were left to bloom, and while I have no way of ascertaining, I can safely say that two hundred of those remaining have been more or less injured. I have tried everything that has been suggested or that I could myself imagine to destroy them after they have been discovered in the beds, but nothing has worked. The only sure way to avoid them in the future is to stop growing the queen of autumn, and I am unwilling to try this remedy.

I know they attack decaying wood and seem to breed in it, but this is not always the cause of them. Compost made from manure containing sawdust, or other woody substance, is sure to breed them, and sometimes they exist from no cause. This season my benches were made of fresh cypress lumber; my compost was two years old and, so far as I could see, without a trace of them, and yet I harvested the largest crop of white ants I have ever known. I shall not undertake to even suggest how they may be gotten rid of when once in the soil after planting, but I shall take a few precautions another season by removing every particle of soil from the benches and allowing them to become perfectly dry. Then I shall treat the exposed wood to a bath of pure kerosene oil, and then a thick coat of whitewash. My compost, as it is being mixed preparatory to putting into the benches, I shall subject to a bath of live steam. This I propose to do by having the mixing done near my steam-plant, on which I shall carry a high pressure, say 100 pounds. A careful man will stand by the mixer with a steam hose connected to the boiler, playing on the heap as each shovelful is thrown on. If the woodlice bother me after that I shall patiently wait for the more successful experience of some fellow-sufferer, and devote my energy to the study of mealybugs, which, by the way, are a good second in the list of troubles of the chrysanthemum grower on the Gulf coast.

F. P. DAVIS.

WORK OF THE COMMITTEES.

Special sessions of the committees were held December 10 and the following records made:

BOSTON—Nathan Smith & Son exhibited Queen of Plumes; delicate lilac-pink, Japanese incurved, hairy type; scored exhibition scale 87 points.

CHICAGO—Nathan Smith & Son exhibited Superba pink, Japanese incurved; scored commercial scale 83 points.

A Cozy Establishment.

Our illustration represents the floral establishment of August Gaedeke & Co. at Nashua, N. H. We reproduce it because so many of our florists in small cities and suburban places seem to lose sight of the advantages of an attractive exterior as well as convenient interior arrangements, and this tidy little place may be useful and suggestive to some of our readers. It was built in 1889 by Judge C. W. Hoitt, who was conducting a flower business at that time, and was sold by him in 1893 to August Gaedeke, who had been employed on the place as foreman for four years. The range comprises a fine rose house, two chrysanthemum houses, carnation house, violet house and plant house. Over the office, which shows in the picture, is a dormitory, and directly in the rear is a making-up room beneath which is the boiler room. The grounds are about half an acre in extent, fronting on Concord street and opening at the rear on Granite street, thus giving a back entrance for all necessary teaming. Mr. Gaedeke has associated with him his brother Rudolph, who is as expert a grower as August is a salesman and designer.

CARNATIONS.

CULTURAL NOTES.

DECEMBER 17.—Right now is a good time to decide what varieties to plant next season. If a sort does not give a fair percentage of its blooms for the holidays it has to have some very good points otherwise to make it good commercially.

In white I know of nothing that quite equals Flora Hill for the size and quality of blooms as well as the number produced. Its one and only fault is its lack of stiffness in the stem, which can be partly overcome by adding a little lime to the soil and growing cool. Next to Flora Hill for quantity and quality of bloom comes Evelina. This variety has failed in some places, and almost so with me, but I recently visited a house of 2500 of this variety and I would unhesitatingly include it in my next list. Genesee is making a fine growth and a few good flowers, but there is too much grass and not enough bloom. Alba Superba gives some excellent blooms on stiff stems and enough of them to make it a good commercial sort. Jack Frost has size but bursts the calyx badly, so that it can hardly be called first-class, except for a retail man who makes up designs. New York and White Cloud I have seen in good shape at several places.

I should place Triumph at the head of the list of pink sorts. Its one fault is its habit of cropping, but if properly handled the first crop will be in for Christmas and the next one can be regulated to come for Easter, with enough flowers between these dates to about pay for the room taken up. The dry summer has been a bit hard on this variety. Victor has made a host of friends and undoubtedly deserves them. Daybreak, its parent, is in such demand this winter that any one who can do it well should grow

it extensively. Francis Joost is a good light pink, very free in bloom and with a good stem, but is not so large as good Triumph. Argyle has more size, is darker in color and will no doubt become a standard sort. New York, another dark pink, will meet with popular approval on account of its freedom of bloom and the good quality of the flowers produced.

Jubilee maintains its good record, although with some growers it is not satisfactory early in the season, this being made up for later. Bon Ton is full of promise as a good commercial sort. Fire Fly, while not so good a scarlet in color as the others, has freedom of bloom and good healthy growth in its favor. Wellesley is a brilliant scarlet of good size, good stem and freedom of bloom, all commercial points being in its favor. Red Jacket is an exceedingly large, full flower on a good strong stem and will be a good one to grow.

Gold Nugget fulfills all its promises, and, while not so large as Mayor Pingree, its freedom of bloom and other good points make it the leading yellow sort. Pingree is fine in every way, especially in size and stem; the freedom of blooming comes nearly up to the mark. Eldorado has made its record and has by no means lost its reputation.

Thos. Cartledge has freedom of bloom and every other commercial point in its favor; it has not met with favor in some sections on account of its color, but in other sections it is in great demand. Mrs. Bradt stands at the head of the variegated list on account of its size and stem; every grower should have it. Armazindy has met with universal favor and deserves it all. Lily Dean has also met with approval. Empress gives good promise but whether it will pay commercially or not is still a question.

ALBERT M. HERR.

TIDAL WAVE AND OTHER VARIETIES DEFORMED.

ED. AM. FLORIST:—Enclosed herewith you will find sample stems of Tidal Wave carnations which appear to be afflicted with some disease. The plants are very fine, but the flower stems grow up to some height and then curl over to such an extent as to prevent the proper development of the blooms. Any information on this matter, with cause and remedy will be much appreciated. J. M.

Replying to the above and also to a similar query from "Subscriber" I must say that unfortunately the specimen branches were too dry to be of much aid in a diagnosis of the case, but from the description of the trouble I should imagine that one of three things was the matter, or possibly a little of each. Either the soil was too rich, too wet and had become soured, or the house has been too dark and the temperature too low. If the soil is too rich the only remedy is to withhold a portion of the water and thus counteract the effects of a surplus of solid nourishment. If the soil has been too wet and has become sour an application of air-slaked lime and the withholding of water will straighten matters out in a short time. If the trouble has been with the temperature the remedy is easy. If the plants are on a dark bench see that the glass is washed clean, as light and heat will probably be the two most effective elements in regaining health. Do not go beyond 55° at night but until you are rid of the trouble allow the day temperature to run as high as 80°, if the weather is bright.

ALBERT M. HERR.

A Dainty Booklet.

I send you herewith copy of Mr. Battles' booklet. I consider this one of the daintiest and most original things for the retail trade that I have ever seen. The cover is ivory, the illustration in scarlet being a facsimile of Mr. Battles' style in doing up his cut flower boxes. Narrow red tape is used instead of string, the ends being sealed with red sealing wax. There are seventy-four pages, 2⅞x4⅞ inches, eight pages of which are text suggestions about flowers, etc., the balance, plain white for memorandum purposes. The text is full of snap and incisiveness. A great deal is said in a very small space,



THE BATTLES BOOKLET.

just enough to make the average reader appreciate every word. This matter is so good that I make some extracts from it for the benefit of your readers.

G. C. WATSON.

A SUGGESTION.

Many patrons keep a supply of their visiting cards at our store, subject to their order. This is convenient when you order by telephone, or if you do not happen to have a card with you.

FLOWERS ON ICE.

We wish particularly to emphasize the fact that flowers, to give satisfaction, should not be kept on ice. A large, handsome ice chest is an evidence of weakness rather than of strength.

RIBBON EFFECTS.

Our ribbon effects, to which we give particular attention, are produced by an artist in that line. We use in our work, ribbon of the highest grade, and in some cases, manufactured exclusively for us.

DINNERS AND LUNCHEONS.

We have ideas on the subject of decorating tables, and shall be glad to offer suggestions, to give estimates and to send perfectly competent and reliable men to arrange flowers, thus relieving you of any anxiety at the "last moment."

LONDON AND PARIS.

Possibly it will interest you to know that we have correspondence with probably the best florists in London and Paris to whom we can cable and have flowers delivered the same day. If we have time to write, it is a little less expensive. Our registered cable address is "Battles."

ANOTHER SUGGESTION.

Many patrons favor us with a standing order for flowers to be sent to their homes, some once, others twice a week, Wednesday and Saturday. We should be glad to serve you in this way; often we can be very generous in filling such orders, and especially so when our patrons understand that not all of the flowers are quite up to our highest standard.

HAND BOUQUETS.

Our creations for "The Assembly" have been known and favorably commented upon for years. The possibilities in arranging flowers into harmonious combinations as to color and form are unlimited, therefore the conventional bouquet of the past is rarely suggested by us. We are particularly successful in our bouquets for debutantes and bridal parties. It is always a help to us if we can see or know the color of the gown.

BON VOYAGE.

Should you wish to send flowers to friends going abroad, we can do it for you. Of the many hundreds of orders of this kind entrusted to us, we have never, up to this writing, made a mistake. It has been necessary to send one of our employes to New York as many as four times in one week. Ordinarily, however, we can deliver them at less cost. Frequently, we fill hampers with fruit and flowers. Occasionally, we pack flowers in several boxes, marked for each day that the vessel is out. The steward takes care of these and delivers them on the days specified.

A FEW BUSINESS METHODS.

The florist business of to-day has developed to such an extent that it has become necessary for the growers in order to meet competition to become specialists. Some grow roses, some violets, others orchids, lily of the valley, carnations, etc., etc. As a retailer, I am convinced that he is strongest who is a factor with the leading growers. In order to procure the best flowers it is necessary to buy in quantities, pay the top price for selected stock, and meet obligations promptly. A large part of our success is due to persistently following out these principles. Quite as important is the taking and filling of orders. This we do with the strictest integrity, carefully selecting, packing and promptly delivering. When there is a doubt about an order it is our policy to err in favor of the purchaser rather than ourselves.

Rochester, N. Y.

We are having regular old fashioned winter weather. Delivering has been done by sleighs for over a week now. Some of our florists are discontent with the early setting in of such severe cold, which compels them to use extra precautions in wrapping up plants and flowers.

Sales during the week have been slightly improved. Prices for flowers are stiffening up. The cloudy weather has cut down the supply from local growers, though we cannot say that there really exists a scarcity in any line as yet. From the present outlook flowering plants will not be plentiful at Christmas. J. B. K.

New York.

CLUB MEETING.—AN ENTERTAINING OCCASION.—INTERESTING TALK BY CHAS. ZELLER.—SOME CARNATION HISTORY.—ELECTION OF OFFICERS.—INTERESTING EXHIBITION.—STATE OF TRADE.—BEAUTIES UP, HYACINTHS DOWN, VIOLETS STATIONARY.—HOLLY AND GREENS.—PERSONAL PARAGRAPHS.

The New York Florists' Club met on Monday evening, December 12. It being the last meeting for the year 1898 the committee thought it would be pleasant to give to the proceedings more of a social character than usual and their efforts in that direction were unexpectedly successful. The attendance was very large and all seemed to enter enthusiastically into the spirit of the occasion. There was an interesting display of flowers and plants, a delightfully reminiscent talk by Charles Zeller, election of officers for the coming year and pertinent discussion on a number of subjects and then the cigars and some refreshments were passed around while a number of members successfully entertained their fellows with song and story.

Mr. Zeller said that he was proud to be recognized as the pioneer gardener of Flatbush. He recalled the conditions prevailing here forty-seven years ago when there were but twelve or fifteen florists, all told, in the vicinity of New York and compared their primitive methods of building and heating greenhouses with the improved methods now in use. Their facilities for marketing their product were of the same character as their conveniences for raising it, but they had ambition, courage and industry and their successors have carried on the work with the same energy and enterprize so that now in looking back over the period of years the development seems astonishing and the quality of the product has advanced in like manner. He referred appreciatively to the social and educational advantages now offered, the societies, the bowling clubs, the trade papers, etc., and felt sure that notwithstanding the apparently too-rapid increase in greenhouse building the practical gardener if industrious and equipped with a good foundation of practical training, would always manage to pull through, however the storm should blow.

Mr. Zeller was listened to with close attention and all would have been glad to hear more from him. Doubtless his natural modesty prevented his referring in detail to his own part in the development of New York floriculture. He might, without undue egotism, claim to be the father of the carnation industry of America for, if I am not mistaken, it was he who introduced to this country La Purite and DeGraw, the two original stand-bys of American carnation growers. These were undisputed occupants of the field until Peerless and Edwardsii made their appearance, the latter contributing early to the conditions that were later on to necessitate the formation of the nomenclature committee of the S. A. F., for Peerless and Edwardsii were one and the same variety sent out without name from the establishment of of John Henderson and re-introduced under conflicting names by a New York and a Philadelphia grower respectively, the flowers coming white with one and pink mottled with the other, the difference owing probably to something in the soil.

Mr. O'Mara made a report of progress on behalf of the committee to whom were referred the complaints of custom house detention of plants and bulbs and was glad to say that assurances had been given by the collector of the port as well as the chairman of the U. S. Senate investigating committee that no effort would be spared to remove all causes for complaint in this direction. The election of officers was a simple matter, there being no contest for either position. The list is as follows: President, Wm. Plumb; vice-president, J. H. Troy; secretary, John Young; treasurer, C. B. Weathered; trustees, Messrs. J. H. Taylor, W. H. Siebrecht and Julius Roehrs.

W. A. Manda made an extensive exhibition of new and rare plants, Lehnig & Winnifield showed a group of remarkably well grown cyclamens one year old in 6-inch pots; J. H. Roehrs brought specimens of Acalypha Sanderiana; A. Herrington a handsome specimen of Cypripedium Leeanum Masserelianum and John N. May a vase of his pink seedling carnation Melba, all of which were given special commendation by the exhibition committee.

Not much change is noted in the cut flower market. The price of American Beauties has been doubled but except in the case of the finest selected blooms, which are scarce, the increase can hardly be said to be operative and much of the stock hangs fire until it is blue and has to go in with the culls. Quality has fallen off and the stems especially show decided weakness of late. Chrysanthemums still remain but they are practically friendless and no one wants them so late. Violets are stationary; all movements to advance rates on them have been fruitless, so far. Carnations are apparently in short supply and Roman hyacinths are too plenty, with prices cut down one-half and stock accumulating. It is whispered that storing for the holidays has already begun in the out of town cellars.

Holly was scarce early in the week and there was something akin to a scare for several days, but the "bottom dropped out" and at present writing it can be bought very low. On bouquet green and roping high prices prevail and the stock in sight is very small. Immortelles are in full supply and cut rates are demoralizing the supply men.

J. A. Penman, whose office at 7 Warren street was drenched out during the recent big fire, has located at room 610 Electrical Building, 136 Liberty street, and "Nicholson's Dictionary of Gardening" still waves.

James Purdy has just been drawn on the jury. Such is fate for one wholesaler at Christmas.

M. A. Hart shows violets now in glass topped boxes. Many advantages too numerous to mention.

E. C. Horan is headquarters for poinsettias now. They sell well this year.

They say that the cypripedium war will be renewed with vigor next season.

The grand divertisement by Messrs. Logan and Cottam at the last club meeting was inimitable.

Alfred Dimmock sails on Saturday, December 17, on the Umbria for England.

Visitors in town: Robert Craig, Philadelphia, and F. R. Pierson, Tarrytown; Mr. McBurnie, Atlanta, Ga.; H. H. Battles, Philadelphia; John Reck, Bridgeport; John Cook, Baltimore, Md.

CHESTER, PA.—Brinton & Smith have added two houses 16x100 to their establishment. Their principal attention is given to geraniums, carnations and mushrooms.

Chicago.

A PERIOD OF REMARKABLE FLUCTUATIONS IN THE MARKET.—A CHRISTMAS WARNING.—A SPLENDID WEEK ANTICIPATED.—COLUMBUS CALLS ON CHICAGO.—FINE VIOLETS.—WIETOR BROTHERS' BUILDING PROJECTS.—PERSONAL AND OTHERWISE.

This has been a week of remarkable fluctuations in supply and demand, unsatisfactory alike to grower, broker and retailer. One day the supply would be large and the demand small, while the reverse would be true of the succeeding twenty-four hours, only to have the first condition return with the following day. There has been a somewhat larger proportion than usual of poor stock.

Next week will, however, be one of the best on record unless the growers choose a repetition of the experiences of Easter and Thanksgiving and destroy the equilibrium of the market by holding their stock until Friday and Saturday. Christmas coming on Sunday will be observed on Monday although the retailers expect Saturday to be their big day, but shipping will begin Tuesday and will be rushing Wednesday and Thursday. Commission men are advising their growers to send in their cut at the usual rate, assuring a splendid average for the week, rather than hold the stock for a big price at the end of the selling period, a course which worked many growers' undoing at each of the last two important holidays.

Frank Danzer, representing A. W. Livingston's Sons, Columbus, O., was in town Wednesday in search of 5,000 carnations, nearly as many roses and a goodly number of palms.

Some of the best violets of the year are finding their way from Crabb & Hunter, Grand Rapids, Mich., to the retailers everywhere through the medium of the Kennicott Bros. Co.

Wietor Bros. have purchased ten acres of ground from their father and are planning to put up 200,000 feet of glass in the spring. They built 125,000 feet last season.

James C. Thompson, who has been employed in various city establishments, is recovering his health. He spent six months of this year in the Cook County Hospital.

A buyer was in the market this week in search of 1000 Christmas Harrisii but the total cut of all the local growers will not much more than reach that number.

J. R. Leesley, 2476 Lincoln avenue, has been at West Chicago moving some trees, averaging over a foot in diameter, upon the Ely estate.

Lloyd Vaughan, of Vaughan, McKellar & Winterson is at home from his tour in the successful quest of holiday orders.

Last evening was retailers' night at the Florists' Club and as a consequence there was one of the liveliest sessions of the season.

W. J. Smyth is receiving his 1000 violets a day, for the entire season, from one of the Oconomowoc growers.

Mrs. Frederick Dickinson has been elected president of the Chicago Flower Mission.

H. M. Clair and Prof. F. W. Taylor, of Omaha, and George Souster, of Elgin, Ill., were among the week's visitors.

Prof. John Craig, of Ithaca, N. Y., was a visitor on Friday.

CHATHAM, N. J.—John Garretson, of Philadelphia, is now foreman of the rose growing establishment of A. P. & S. Lum.

THE AMERICAN FLORIST

Subscription, $1.00 a year. To Europe, $2.00. Subscriptions accepted only from those in the trade.

Advertisements on all except cover pages, 10 Cents a Line, Agate, $1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

Cover space sold only on yearly contract at $1.00 per inch, net, in the case of the two front pages, regular discounts applying only to the back pages.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

CHRISTMAS comes on Sunday this year and does not break the business week, which should prove a profitable one to the wide awake florist.

WHOLESALE prices of from nine cents to twelve cents per pound are reported on bouquet green. This is probably high water mark for some years in this stock.

REV. DR. JOSEPH KRAUSKOPF, president of the National Farm School, Doylestown, Pa., has received a donation of $1,000 from Mrs. Z. Eisner, of Philadelphia, for a memorial greenhouse, the third to be given the institution this year.

MR. LOUIS MENAND, the veteran florist of Albany, N. Y., has kindly favored us with a copy of the new edition of his "Antobiography and Recollections." Many interesting reminiscences and experiences may be found in its pages, and Mr. Menand's numerous friends in the trade will look upon the appearance of the volume as a welcome token of the author's continued good health and activity.

The American Florist Company's Directory.

The final corrections are now being made for the next edition of our directory of florists, nurserymen and seedsmen, to be issued January 1, and we trust our readers will promptly inform us of any business changes which have come to their notice within the past year. Advertisements and orders for the use of large type in names of alphabetical list should be mailed as early as possible.

Relentless Europe.

We find the following in a recent issue of *Viola*, a Scandinavian journal of horticulture published in Stockholm: "The Society of American Florists has recently decided to change its name to Ornamental Horticulturists. On account of the ambignous meaning of this name a number of the papers have humoronsly alluded to it, wondering if the members of this society are hereafter to be known not only by their skill in their profession but also by their handsome and ornamental personal appearance."

Catalogues and Cut Flower Price Lists Received.

Iowa Seed Co., DesMoines, Iowa, birds and gold fish; Chas. D. Ball, Holmesburg, Philadelphia, Pa., palms; Lee, Watkins & Co., Evergreen, Ala., evergreens; Letellier Sons & Co., Caen, (Calvados) France, trees and shrubs; W. A. McFadden, Cincinnati, Ohio, cut flowers; A. G. Prince & Co., Chicago, Ill., cut flowers; Cincinnati Cut Flower Co., Cincinnati, Ohio, cut flowers; Welch Bros., Boston, Mass., cut flowers; Francis Brill, Hempstead, L. I., N. Y., garden seeds; The Howard & Willet Drug Co., Augusta, Ga., seeds; J. C. Groenewegen, Boskoop, Holland, cut flowers; Wilhelm Pfitzer, Stuttgart, Germany, seed novelties; Bateman Manufacturing Co., Grenloch, N. J., farm and garden implements; Wm. F. Kasting & Co., Pittsburg, Pa., cut flowers; Holten & Hunkel Co., Milwaukee, Wis., cut flowers; Bassett & Washburn, Chicago, Ill., cut flowers.

Greenhouse Building.

Toledo, Ohio.—Sarah G. Joehlin, range of four houses to cost $4,500.

Haverhill, Mass.—C. H. Kaulbach, one greenhouse.

So. Sudbury, Mass.—H. N. Eaton, one forcing house.

Webster, Mass.—Mrs. A. L. Converse, two houses 16x60, with office and packing room.

North Middleboro, Mass.—Rev. Joseph Jenks, greenhouse 20x100.

Kingston, Pa.—Geo. E. Fancourt, range of commercial houses.

Ardisia Crenulata.

ED. AM. FLORIST:—Please tell me through your columns the native country of Ardisia crenulata, and the temperature in which its berries color best. A.

This plant is a native of Mexico. The berries color best and remain longest on the plants in a night temperature of 40°, rising 10° to 20° during the daytime.

GROWER.

Woodlice or Sowbugs.

ED. AM. FLORIST:—Will you kindly give, in your next issue, the best method of getting rid of woodlice in a violet house? The tops of the buds have been entirely eaten off, although the plants are otherwise fine. A SUBSCRIBER.

If "A Subscriber" refers to the pests known in European gardens as woodlice and in this country as sowbugs, they may be expelled by placing gas-lime about their haunts. Slices of carrot poisoned with some arsenite are also said to be efficacious. G.

Caladiums and Hydrangeas.

ED. AM. FLORIST:—Kindly advise me how to keep caladiums over winter. I have a lot of clumps with six or eight large tubers to each and would like to know whether they should be divided or allowed to remain intact. Should the tops be cut off short or allowed to remain? The tubers were lifted when the leaves had been pinched by frost. How should Hydrangea Otaksa and H. Hortensia be treated now? Should they be allowed to remain dormant and started later on, or how? G. K.

Your correspondent, "G. K.," means Caladium esculentum, I presume, in the above inquiry. If that is what is intended, no trouble will be experienced in keeping the tropical plant indicated under a rose house table where the night temperature is not lower than 55°, provided there is not too much drip from the stage above. Shorten the tops to within a few inches of the crowns and allow the tubers to remain intact until early spring, when they may be divided, potted and given an opportunity to grow, ready for planting outdoors, or for spring sales, as soon as the weather is favorable.

Hydrangea Otaksa and H. Hortensia should be allowed to remain dormant until within ten weeks or three months before they are needed to be in full bloom.

L.

Lilacs and Hydrangeas.

ED. AM. FLORIST:—I shall be pleased to learn through your columns the best way to treat hydrangeas from this time onward to have them in bloom for Easter (April 2), also whether lilac Charles X can be successfully forced for Christmas.

G. O.

I will endeavor to inform "G. O." with regard to my method of treating hydrangeas for early flowering (which is the best I know of after thirty years' experience in forcing them) from this date, December 15, until April 1, at which time I expect to realize on the fruits of my labor by a generous gift of beauty that will soon be turned into a pecuniary blessing. Supposing that "G. O.'s" hydrangeas have been grown in pots during the summer—as mine always are, for I think it much preferable to planting them in the ground and lifting and potting them at the approach of frost in autumn, particularly for early forcing—they are taken from under the bench of a cold house—where they were placed early in October from a frame outside, where they had been during the summer—and placed upon a table. They are kept at a temperature of 50° at night, and day, if possible, and allowed to become quite dry until about January 10, that they may drop their leaves and plump up their flowering buds. They are then given a liberal watering and the temperature is raised to about 60° for two or three weeks, when the temperature is again raised to 65° or 70°. About March 1 the flower buds should show to about the size of a nickel; but if they do not so develop, the temperature may be increased to 75°. At this stage give plenty of water, and shade slightly to prevent the foliage from being burned by the sun, which is apt to occur and spoil the plants. Bright, clean, perfect foliage is a garnish which adds beauty to the whole.

To force lilacs into bloom by Christmas, take imported plants of Charles X that have been grown in pots, put them into a temperature of 80°, and shade to darkness December 1. Give plenty of water and then you will have the name of lilacs at Christmas, but a sad reality.

WM. K. HARRIS.

Perplexed by Condensed Steam.

Referring to the inquiry of "S. F.", page 523, regarding the return of condensed steam to his boiler, the writer had a similar experience and could not even get sufficient pitch to use the closed hot water system. As a steam trap requires at least forty to sixty pounds of steam, that was out of the question and the only way seemed to be the use of an automatic pump and receiver. The pump can be bushed (reduced) at the water end so that a steam pressure of twelve to fifteen pounds will operate it and I would particularly suggest that the exhaust pipe be carried on an incline from the outlet in the pump instead of up through the top of the building as is frequently done. The pump, working at intervals, will then rid itself of the condensation much easier. A pump alone, pumping from the return coils, is a nuisance, as it is pumping steam much of

the time. We had to do it until the receiver was installed and were thankful when we could stop it. If the valves are set accurately, so that the pump will start when steam is admitted, it gives very little trouble and keeps up a circulation of hot water. Different pump makers have different forms of receivers, some horizontal, others perpendicular. We are using the Worthington duplex pump and receiver. If "S. F." is not familiar with them any of the pump catalogues describe their operation. Care must be taken to keep the water to a good height in the boiler, as when the pump stops working through insufficient steam pressure, the receiver first, and then the pipes, gradually fill with the condensed steam and lower the water in the boiler correspondingly. Above all have a pump that works perfectly, without any sticking or catching on center as it will make no end of trouble. F. C. CURTIS.

Sandy Creek, Me.

OBITUARY.

S. B. DUSTIN.

Samuel B. Dustin, for thirty-eight years a gardener at Utica, New York, died on November 25, aged 65 years.

MRS. BEHEN.

Mrs. Hannorah Behen, mother of Thomas Behen, of the firm of John H. Orth & Co., 416 Market street, McKeesport, Pa., died very suddenly December 6 from congestion of the lungs. She was 51 years of age and is survived by six children.

JOHN SCHANTELMIER.

John Schantelmier, the veteran florist of Chattanooga, Tenn., died December 12 after a protracted illness at the family residence at St. Elmo. He was a native of Germany and 70 years of age. He leaves a wife but no children. Mr. and Mrs. Schantelmier have resided at Chattanooga since 1870. The interment was at Forest Hill.

MRS. WHITE.

Mrs. John White died on December 12. This news will bring to many a florist and gardener memories of visits to Pittsfield, Mass., made pleasant by the ever ready hospitality and uniform kindness of the lady whose death is thus announced. Nothing was ever too good for one of the craft if he happened within the reach of Mr. and Mrs. White's welcome and to Mr. White the sympathy of many friends will be extended in this bereavement.

EMILY NEIDNAGEL.

Miss Emily Neidnagel, who has been in charge of Julius Neidnagel's Main street store, Evansville, Ind., died December 1 after six weeks illness with typhoid fever. She was twenty-four years of age and is survived by her parents, five brothers and one sister. The obsequies took place December 3 and were largely attended. The floral tokens were profuse, noticeable among them being a huge bouquet of Bridesmaid roses from Bassett & Washburn, Chicago.

DES MOINES, IA.—I. W. Lozier now has seven greenhouses and has opened a down town store in charge of his son, A. G. Lozier.

EDGEWOOD, R. I.—George Pearce, for a number of years engaged in the florist trade here, has removed to New Hampshire for his health.

Philadelphia.

AS SANTA CLAUS APPROACHES PRICES BEGIN THEIR UPWARD MARCH.—SHORTAGE IN SEVERAL LINES.—STORAGE FACILITIES.—POPULAR PLANTS.

As Christmas approaches so do the prices strengthen and as the demand is not so extraordinary as to account for the advance the growers give as a reason that the figures have to be moved up gradually so that the difference will not seem so great at Christmas, when the climax is reached. The best Beauties are bringing fifty cents straight. Carnations are bringing $2 on an average for fair stock; the quality is about up to the average for the season, although it would seem as if the stems were a little weaker. There are no Harrisii lilies in this market as yet. Cattleyas are very scarce, those in the market coming from a distance. Good violets are still scarce. Many lines appear to be short, although the last few days have been clear and growers say their houses are looking well. The storage facilities are no doubt being tried if not taxed. How would it do if the florists' clubs were to offer a prize for the longest kept presentable flowers? It would be interesting to know how long flowers can be kept and yet appear to be in a salable condition.

There will be the usual lot of Christmas plants. Of the foliage plants Boston ferns and Dracæa terminalis are leaders with araucarias and livistonias good seconds. There are not so many plant baskets filled here as might be and more of this work could be made up to advantage. K.

Baltimore.

As a forerunner of Christmas business has been very slow, thus giving our retailers a chance to decorate and prepare for the expected rush. Stock is at present plentiful, though in no case over-abundant. Violets are now in great demand and very scarce, bringing wholesale 75 cents and $1 per hundred.

John Barclay was in town this week in the interest of Vaughan's Seed Store, New York. A. R. J.

NIAGARA FALLS, N. Y.—W. J. Biggar is about to increase his glass.

COLUMBUS, O.—Charles Wolf has opened a flower stand in the Union depot.

SARANAC LAKE, N. Y.—H. B. Tremble has opened a flower store in the Bassett building.

OXFORD, O.—Lawrence Castigan is in charge of the new greenhouse at the Retreat.

UPTON, MASS.—H. O. Harrington will in future devote practically all his establishment to carnations.

HOPKINTON SPRINGS, MASS.—G. W. & W. A. Temple have planted with carnations a house 45x176 formerly used for cucumbers.

TOUGHKENAMON, PA.—Simon Pyle suffered a loss of $2,000 by fire caused on the morning of December 4 by a defective flue in his boiler room.

COUNCIL BLUFFS, IA.—M. H. Frey, who recently met death by an accident to his boilers, was a son of H. H. Frey and a brother of C. H. Frey, of Lincoln, Neb. The employe, Williams, who was injured in the accident, is recovering and the physicians hope to save his sight.

MENOMINEE, MICH.—Lewis Zechetto, a florist from Paris, has opened a store at 419 Main street.

NORWALK, CONN.—Samuel J. Banks has taken a lease of the McKay greenhouses in East Norwalk.

TURNER, ME.—Mrs. S. L. Goodspeed has purchased the greenhouses and stock of Gilman T. Brown and will remove them beside her own at Turner Center.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By all-round workman on or before Dec. 1st. Good fireman, propagator, etc. Address N Y, care American Florist.

SITUATON WANTED—By gardener and florist, with first-class references; 16 years in this country; single. German. Address GARDENER, 1617 N 5th St., Philadelphia.

SITUATION WANTED—By florist and gardener, bedding plants, ferns and cut flowers; energetic and sober; 13 years' experience; widower. W. J. PACKHAM. 515 W. Utica St., Buffalo, N. Y.

SITUATION WANTED—By a strictly temperate florist with excellent recommendations; good greenhouse builder, painter, glazier; 15 yrs. exp. with gen'l stock; designer. PRACTICAL, care Am. Florist.

SITUATION WANTED—By a young man (Belgian), 10 years' experience; good propagator; thoroughly experienced in stove and flowering plants, also carnations and roses; Chicago preferred. K L K care American Florist.

SITUATION WANTED—By American grower, married, 7 years in commercial place, 3 in nursery; prefer private place; grow flowers and vegetables both under glass and outdoors. Good references Address J S B, Andalusia, Bucks Co., Pa.

WANTED—Good, second-hand hot water boiler, heating capacity, 12-1400 running feet 4 inch greenhouse pipe. JOS LABO, Joliet, Ill.

WANTED—A good, all-round florist, single, sober and reliable. Must give references Good wages to the right man. Address, stating wages, O. L. BAIRD, Dixon, Ill.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

FOR SALE—Store and two well stocked greenhouses; 50 minutes' ride from center Chicago; horse and wagon, coal and kindling, tools and sashes on place. $1000 will buy. Proprietor suddenly taken ill. Address B I, care Am. Florist. Chicago.

FOR SALE One Peter Smith (Boston) cast iron Boiler in first-class condition, also 2000 feet of glass, mainly 12x16, some 12x18 and some 12x12, and 300 feet of 4-inch pipes and fittings. A bargain. For full particulars write to

HOLTON & HUNKEL CO. P. O. BOX 103. Milwaukee, Wis.

FOR SALE.

A well established and paying florist's business, with 10 to 30 acres of land, 17,000 square feet of glass. Good residence and houses for help. Situated near one of the largest cities in California. Ill health and desire to retire from business cause for selling. For full particulars address

LOCK BOX 720, Los Angeles, Cal.

FOR SALE.

100 nice, made-up SEED BOXES OR DRAWERS holding from 10 to 14 qts. of seeds, with or without shelves; also have 50 Electrotypes for Catalogue use, as good as new, and one hose success tread power with pumping attachment for pumping water. For full particulars address

BOX 4, Station D, Milwaukee, Wis.

FOR SALE AT A BARGAIN.

Nine (9) greenhouses, about 21,000 feet of glass, well stocked with Roses and Carnations in first-class condition, also large stock of Bedding Plants; houses heated with steam, a new boiler; one heavy wagon and one spring wagon. Also 2¾ acres of land, or 14 lots. In a flourishing town of 8000 inhabitants, situated in central Ohio; no competition. Part cash; the rest on first and second mortgage. Address

GREENHOUSES, care Am. Florist.

Detroit.

THE WEATHER, TRADE AND STOCK CONDITIONS.—GEO. HEINL A VISITOR.—CLUB MATTERS.—HOLZNAGLE READS A PAPER ON CHRYSANTHEMUMS.

Severe winter weather is here and chrysanthemums are about used up, which makes the rose growers feel a little better although they are complaining about low prices. Carnations are scarce but some very good stock is coming from Rackham and Holznagle.

George A. Heinl, of Toledo, O., was a visitor last week and with a party of the local florists visited the Pontiac Floral Co., at Pontiac, and found some very fine Meteor and Bridesmaid roses and a good lot of Brides, which will, however, be late for Christmas. They also have some fine violets.

B. Schroeter had a job of decorating a store recently that used up a large quantity of holly and bouquet green.

John Breitmeyer & Son are sending in very good poinsettias.

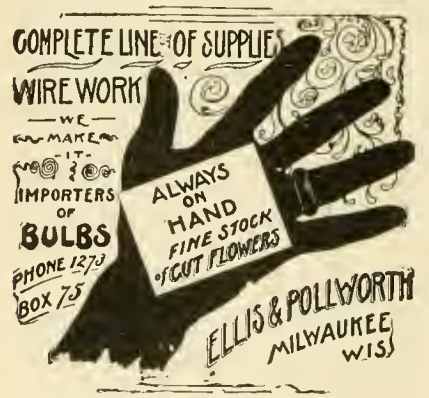
The Florists' Club is progressing finely as new members are coming in every meeting. F. Holznagle read a paper at the last meeting giving his experiences in growing chrysanthemums. The president appointed committees to prepare for the meeting of the Society of American Florists. The boys are very enthusiastic over this and expect a large attendance. We also anticipate an extensive trade exhibit as we already have several inquiries for space. R. F.

Orange, N. J.

The meeting of the New Jersey Floricultural Society was held on December 5; President Malcolm MacRorie occupied the chair. The nomination and election of officers for 1899 took place and resulted as follows:

For president, Peter Duff; vice-president, John Hayes; treasurer, George Smith; secretary, Joseph B. Davis.

The annual dinner will be held after the installation of officers on January 6. D.



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Largest Grower of... Cut Flowers in the West.
Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO.
LONG DISTANCE 'PHONE AT EITHER PLACE.

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Wholesale Florists,
H. G. BERNING
1620 Olive St.
ST. LOUIS, MO.

Benthey & Co.,
WHOLESALE & COMMISSION FLORISTS.
41 Randolph St., CHICAGO.

WE are prepared to fill your order for the holidays, providing we get your order early. Our stock is large and of fine quality. Everything in season. If you have not received our price list send for it.

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Pittsburg Cut Flower Co. LTD.
WHOLESALE FLORISTS,
Long Distance 'Phone 2157. 705 Penn Ave., PITTSBURG, PA.
WRITE FOR PRICE LIST. CONSIGNMENTS SOLICITED.

Wholesale Flower Markets

CINCINNATI, Dec. 15.

CHRISTMAS PRICES.	
Roses, Beauties, select	35.00@50 00
" " medium	15 00@25 00
" Brides, Bridesmaids	5.00@ 8.00
" Meteors	6.00@ 8.00
" Perles	4 00@ 5 00
Carnations	2 00@ 4 00
Violets	2 00
Lily of the valley	4 00@ 5 00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00
Narcissi, Roman Hyacinths	3.00@ 4 00

ST. LOUIS, Dec. 15.

CHRISTMAS PRICES.	
Roses, Beauties	6 00@40 00
" Meteors	6.00@10.00
" Brides, Bridesmaids	6.00@10.00
" Perles	3.00@ 8.00
" Kaiserins	6.00@10.00
Carnations	1.50@ 3 00
Smilax	15.00
Adiantum	1.00
Asparagus	40.00@50.00
Chrysanthemums	5.00@25.00
Violets, California	1 00
" single	35
Roman hyacinths	3 00
Narcissi, Paper White	3 00
Callas	10.00@12 50
Valley	5.00

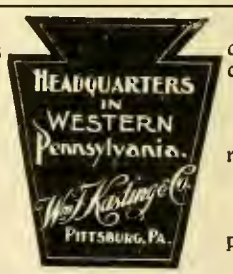
MILWAUKEE, Dec. 15.

CHRISTMAS PRICES.	
Roses, Beauties, long.. per doz.	8.00@10 00
" " medium " "	6 00@ 8.00
" " short " "	2.00@ 5 00
" Brides	7 00@14 00
" Bridesmaids	8 00@15 00
" Perles	7 00@12.00
" Meteors	8 00@16 00
" Kaiserins	7 00@14 00
Carnations, fancy	5 00@ 6 00
" good stock	3 00@ 4 00
Smilax	12.00@18 00
Adiantum	.75@ 1 00
Asparagus	75.00
Violets	2 00@ 2.50
Callas	15.00@18 00
Stevias	2.00@ 3 00
Romans, Paper White	3.00@ 4.00

PITTSBURG, Dec. 15.

CHRISTMAS PRICES.	
Roses, Beauties	15.00@100 00
" Brides, Bridesmaids	6.00@18.00
" Meteors	8.00@20.00
" Kaiserins	10 00@20.00
" Niphetos, Perles	5 00@ 8 00
Carnations, short stems	1.25@ 2 00
" long "	3 00@ 7.00
Chrysanthemums	10 00@30.00
Violets	1 50@ 3.50
Lily of the valley	4 00@ 5.00

ROSES
CARNATIONS
VALLEY
FERNS
GALAX and
IVY LEAVES
and all
kinds of
Seasoneble
Flowers
in Stock.



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Wholsale Florists. 444 SIXTH AVE.
LONG DISTANCE TELEPHONE 2985.
All kinds of Florists Supplies & Wire Designs on hand.
Consignmer ts of good stock solicited.

CINCINNATI CUT FLOWER CO.
SUCCESSORS TO
H. L. SUNDERBRUCH CO.
Wholesale Commission Florists
416 Walnut St., CINCINNATI, OHIO.
Consignments Solicited. Special Attention Given to Shipping Orders.

Get your order for.....
Roses, Carnations, Paper Whites AND Romans
for CHRISTMAS in early to
GEO. A. KUHL, Pekin, Ill.

A. HERRMANN
Manufacturer of Florists' Supplies.
Send for a price list.
404-406-408-410-412 E. 54th St, NEW YORK

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CHRISTMAS PRICE LIST, taking effect Tuesday, Dec. 20th.

ILLINOIS CUT FLOWER CO.

J. B. DEAMUD

51-53 WABASH AVE.

CHICAGO

	Per 100
Harrisii	$20 to $25.00
Valley	5.00
Roman Hyacinths	4 to 5.00
Paper White Narcissus	4 to 5.00
Cypripediums	15 to 20.00
Am. Beauties	$15 to $75.00
Brides, Bridesmaids, Meteors	12 to 15.00
Perles	8 to 12.00
Carnations, ass't	4 to 5.00
Carnations, fancy	7 to 8.00
Asparagus, per string, 50c	
Smilax	12.50
Violets	2 to 2.50
Common Ferns, per 1000, 1.50	.20
Adiantum	75c to 1.00
Galax Leaves... $1.50 per 1000	.20
Stevia	2.00

P. & D. AT COST.

E. H. Hunt

THE "OLD RELIABLE" FOR

WHOLESALE

CUT FLOWERS

Hunt's Flowers Go Everywhere

76 Wabash Ave., CHICAGO.



600,000 FEET OF GLASS.

PETERBERG BROS.

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AMERICAN BEAUTIES.

51 Wabash Ave., - CHICAGO.

...PRICE LIST...

CHICAGO, December 17, 1898.

AMERICAN BEAUTY		
Extra long stem	per doz.,	$12.00
24-in. stem	"	9.00
20 "	"	7.50
15 "	"	5.00
12 "	"	3.50
8 "	"	2.00
METEOR	per 100,	15.00 to 18.00
BRIDESMAID	"	15.00 to 18.00
BRIDE	"	15.00 to 18.00
KAISERIN	"	12.00 to 15.00
PERLE	"	8.00 to 12.00
CARNATIONS	"	4.00 to 5.00
" fancy	"	6.00

All other stock at lowest market prices. No charge for packing.

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GREENHOUSES: HINSDALE, ILL.

A. L. RANDALL

Wholesale Florist

Don't Forget that we are at 4 Washington St., Chicago.

Write for special quotations on large orders.

VAUGHAN, McKELLAR & WINTERSON,

Wholesale Florists,

45-47-49 Wabash Avenue, - - - CHICAGO.

CUT FLOWERS AND ALL FLORISTS' SUPPLIES.

Orders booked now for XMAS..... HOLLY and BOUQUET GREEN.

See our Adv. of **CYCLAMEN PLANTS** elsewhere in this paper.

Lynch WHOLESALE FLORIST.

19-21 E. RANDOLPH ST. CHICAGO

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Agents for the Hinsdale Rose Co. Special attention paid to shipping orders.

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(Successor to WINTER & GLOVER,)

21 Randolph St., Chicago.

HIGH GRADE **CUT FLOWERS,**

PACKED RIGHT,

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WIRE DESIGNS: A Full Line. Write us for our Illustrated Catalogue.

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WHOLESALE GROWER OF ROSES. DEALER IN CUT FLOWERS.

J. A. BUDLONG,

37-39 Randolph Street. CHICAGO, ILL.

Wholesale Flower Markets

CHICAGO, Dec. 16.

CHRISTMAS PRICES.

Roses, Beauties, extra long, per doz	12.00
" " 24 inch " "	10.00
" " 20 " " "	8.00
" " 15 " " "	6.00
" " 12 " " "	4.00
" " 10 " " "	3.00
" " 8 " " "	2.00
" Brides	8.00@15.00
" Kaiserins	8.00@15.00
" Bridesmaids	8.00@15.00
" Perles	6.00@10.00
" Meteors	8.00@15.00
Carnations	3.00
" fancy	4.00@ 8.00
Lily of the valley	4.00@ 6.00
Adiantum	1.00
Common ferns	.20
Smilax	12.00
Asparagus	50.00@100.00
Violets	2.00@ 3.00
Romans, Paper Whites	4.00
Callas	15.00@18.00
Cattleyas, per doz.,	$6.00
Cypripediums, "	2.00
Harrisii "	2.50

Tell them where you saw the ad

KENNICOTT BROS. CO.

WHOLESALE CUT FLOWERS AND FLORISTS SUPPLIES.

WIRE WORK A SPECIALTY. 88 WABASH AVE. CHICAGO.

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Samuel S. Pennock, Wholesale Florist,

1612-14-16-18 Ludlow Street, ...PHILADELPHIA, PA.

.....FINE VALLEY AWAYS ON HAND.

Can supply at short notice a choice assortment of ORCHIDS.
A select grade of VALLEY on hand the year round.
AMERICAN BEAUTIES our specialty.

GEO. A. SUTHERLAND. BOSTON... FLOWERS

Wholesale Depot for all Florists' Supplies.

Price Lists mailed. 67 Bromfield St., BOSTON, MASS.

CITY HALL CUT FLOWER MARKET, 9 Chapman Place, 15 Province Street, BOSTON, MASS.

WELCH BROS., PROPRIETORS.

Consignments from ragular growers assigned separate space in our market. We guarantee paymant for all flowers sold. Salas reported weekly. Payments monthly, or oftener if required.

THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

Wholesale Florists, JOBBERS IN
Always on Hand:
CARNATIONS,
BRIDESMAIDS,
BRIDES.
FLORISTS' SUPPLIES
FLORISTS' VASES.
Horticultural Auctioneers.
84 HAWLEY STREET, BOSTON.

GALVIN & CO.

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AND DEALERS IN ALL
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Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations.

GROWERS and BUYERS make a note of this. It will be to your advantage.
WM. H. GUNTHER,
....30 West 29th Street.

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Wholesale Florists and dealers in Florists' Supplies
Special facilities for shipping south. Unequalled returns for good stock. Open night and day.
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☞Consignments solicited.....
Mention American Florist.

BRILLIANT GREEN AND BRONZE

GALAX LEAVES,

For Decorating and all Florists' Designs.
CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

Wholesale Flower Markets

PHILADELPHIA, Dec. 14.

Roses, Teas	3.00@ 8.00
" " extra	8.00@10.00
" Beauties, extra	35.00@50.00
" " firsts	20.00@30.00
" " seconds	8.00@20.00
Carnations	2.00@ 3.00
Lily of the valley	3.00@ 4.00
Asparagus plumosus	35.00@50.00
" Sprengerii per bunch .50@ .75	
Smilax	15.00@20.00
Violets, double	1.00@ 2.00
Narcissi, Roman Hyacinths	3.00@ 4.00

BOSTON, Dec. 14.

Roses, Beauties	10.00@50.00
" Kaiserins, Meteors	4.00@10.00
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Carnations, ordinary	1.25@2.00
" fancies	2.50@3.50
Lily of the valley	4.00
Smilax	12.00@15.00
Adiantum	1.00@1.25
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EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

BERMUDA growers report the acreage of Lilium Harrisii planted this season about half of that planted in 1898.

A FIRE in the railroad warehouse at Mountain View, California, December 10, damaged several thousand pounds of Red Wethersfield onion seed.

S. F. WILLARD, Wethersfield, Conn., secretary and treasurer of the American Seed Trade Association, was a Chicago visitor this week, as were Preston King, of Minneapolis, and M. Kurzeveil, of the Iowa Seed Co., Des Moines, Ia.

Onion Seed Prices.

There remains much uncertainty as to the prices which will be made in the forthcoming spring catalogues. The same distrust of competitors that always prevails will doubtless cause most dealers to put their prices as low as their own contracts and present trade prices will allow them to go and make a fair profit. Taking into consideration the fact that some houses own '96 and '97 crop onion seed at from 20 to 30 cents per pound, it will be possible for them to make their average cost for the season from 40 to 50 cents; on this basis may we not well conclude that onion will be offered as low as $1 per pound?

The Rocky Ford Melon.

Mr. Paul Rose says: "I do not believe that the soil at Rocky Ford has anything to do with success in melon growing at that place. It is a fact that south of central Indiana sweeter and better melons can be grown on clay soil than on light ground. Growers claim their vines on such soil hold up, remain green and free from blight longer. I consider the altitude of great importance. You must grow melons on high airy land and in my judgment the altitude of the Rocky Ford melon district has much to do with the success attained there. Seed from Rocky Ford melons has been planted by me in Indiana but the product was no better in any way than our own strain of Netted Gem. The melon growers at Vincennes, Ind., claimed that melons from Rocky Ford grown seed were better and perhaps sweeter than their own strain of Gem produced, but I don't think they had a choice strain of Gem originally."

Fortin Lily of the Valley.

This lily of the valley, judging from its external appearance, is evidently not a descendant of the Hamburg or Berlin garden varieties, but resembles the wood lily of the valley in leaf and pip. The bells of this kind, however, are double the size of the others, and often as many as twenty-five bells are produced on one stalk. The color is a beautiful pure white, and the fragrance is fully as strong as in the other sorts. The root action appears to be quicker than with the Hamburg or Berlin varieties, pips planted in the fall of 1897 having run through the entire bed in May, 1898. It would, therefore, not be unreasonable to expect to obtain flowering pips of this kind in two years, and this would be another advantage.

For early forcing the Fortin lily of the valley cannot be used, as I have never obtained flowers of it before February 1. The flowering pips are very large and vigorous and the planting pips also larger and stouter than those of other varieties; it is therefore advisable to plant them farther apart in order to obtain a large number of bells. When they were planted close together the stalks did not produce over fifteen to eighteen bells. The Fortin lily of the valley comes nearest to the Dutch variety which is used to produce the clumps in Holland, but the bells are much larger and hang somewhat closer together. The Fortin does not seem to be subject to the various kinds of fungus diseases which in other varieties so often influence the yield.—*G. Frahm in Die Gartenwelt.*

Indianapolis.

TRADE SLOW BUT EXCELLENT PROSPECTS FOR CHRISTMAS.—CARNATION EXPERIENCE.—THE ROSE SITUATION.—VIOLET GROWERS UNSUCCESSFUL.

Ever since Thanksgiving business has been very slow, even for this time of the year, when everybody is saving for Christmas. In general florists will this year be better prepared than usual to meet a heavy holiday trade. Cut flowers are of superior quality and excepting violets are plentiful. Carnations, especially, are doing very well and growers will have a good supply of fine flowers for next week. Most of them, by the way, will come from field grown stock. Pot grown plants furnished good flowers during the early part of the season, but judging from present appearances field culture will prove in the end the most profitable method. For pink Albertini and Scott are still leaders, while Daybreak is slowly falling behind. Jubilee is practically the only scarlet grown in this vicinity. For white Flora Hill is most extensively planted; Uncle John and Lizzie McGowan are disappearing. Many are trying Evelina and White Cloud; so far both have made a very good showing; Evelina seems to be the most prolific bloomer, and White Cloud is slightly better regarding stem and shape of flower.

There are also good Christmas prospects for the rose growers. Bride, Bridesmaid, Meteor and Perle are the only varieties grown in quantity. Testout and Siebrecht have entirely disappeared, and of Beauty, Kaiserin and Carnot there are not enough plants in any one establishment to cut a dozen flowers a day.

There were enough violets planted here to more than supply this city, but only a very small number had any success. John Hartje is one of the few. With the exception of some hundred pot plants his violets are doing fine, especially Princess of Wales and Farquhar.

Regarding pot plants, florists do not seem to expect any increase over last year's business. For blooming plants azaleas and cyclamen are favorites, while primulas and bulbous stock are less grown. H. JUNGE.

Germantown, Pa.

Interested as to what flowering plants are to be offered for sale for the rapidly approaching holidays, I first called upon David Cliffe, who is located on Johnson street, near to Main street, as it was at one time called, now Germantown avenue, quite convenient for prospective customers, either retail or wholesale. I found some begonias, though they were not large enough to be sufficiently attractive to sell on sight. The cyclamens were also small, and the Chinese primroses will be too late for the gay and festive Christmas time. The foreman explained that their local trade demanded more of the smaller sizes of flowering plants than larger ones. My own impression is that are always some few customers in every locality who would buy choice grown plants for Christmas presents and for home adornment if they were put before them in larger sizes and in an attractive manner. Some of the brilliant bracts of the poinsettia in pots attracted my attention. The star pot-plants for Christmas trade here, on the occasion of my visit, were some Solanum capsicastrum, popularly known as the Jerusalem Cherry. Quite a number of this showy berried plant were grown last year and many more could have been sold than they had. They are prepared for an increased demand, having many more than they had last year. They were grown planted outdoors all summer, lifted in the early fall, and are now salable plants in 5-inch and 6-inch pots. Their carnations for cut flowers are the picture of health; so also are their Bride, Bridesmaid and Meteor roses.

Albert Woltemate, also located in Germantown, a few blocks below on Main street, was next visited. It proved to be one of Mr. Woltemate's busy days, so that I did not have as much talk with him as I could have wished. Albert says some of the trade papers may assert what they please about the demand for chrysanthemums being on the wane, but he does not know how he could get along in his business without them. He is always sorry when they are gone. He has a fine lot on hand in pots in a cool house at this writing, so that he will not run short immediately. Late, good varieties are what suit him best. He had a fine plant of E. M. Bigelow which he thought well of for late work, as the deep red incurved flower was in excellent shape at the time of my visit. First-class late whites seen to be scarce. He had some plants of saintpaulia, which, if in larger sizes, ought to be good for sale at Christmas. He had also quite a variety of begonias, but these plants were hardly large enough to be as attractive as a begonia may be grown for this season of the year. Albert is an enthusiast on orchids; he has a number of plants of Vanda cœrulea, with which he is experimenting. His Lælia purpurata growing in plain peat moss with charcoal and crocks are doing finely. Most of his orchids are growing in more or less peat moss. He has a lot of Araucaria excelsa, both large and small. The larger sizes would make aristocratic Christmas trees.

Some blocks nearer the city is located George E. Campbell, who has a house full of chrysanthemums in pots. George says there is not as much money in these autumn queens as there was a few years ago. Competition in his immediate neighborhood is so keen that there is very little profit in them any more. He also has a house full of both white and yellow marguerites, which will apparently be about right for Christmas. A house of Bride and Bridesmaid roses for cut flowers was in fine shape. This is Mr. Campbell's first experience as a rose grower for cut flowers and he may well be gratified with the results.

I was surprised not to find some well grown Begonia incarnata plants at any of the places visited on that day. Last year I was attracted by an illustration in the AMERICAN FLORIST of this begonia and what was there called "Begonia incarnata improved." I had for years

known the old variety and decided to try some of the improved sort, which I did, and it certainly is a gem for Christmas. I have seen advertised Begonia incarnata gigantea. It would be interesting to know if the "gigantea" and the "improved" are identical. Can some of your readers throw some light upon this subject? E. L.

DIXON, ILL.—O. L. Baird, who has the largest establishment in this section, is adding a new boiler to his equipment.

DOVER, N. H.—Chas. A. Rand's greenhouse was destroyed by fire on the morning of November 27. Loss about $1000.

OCONOMOWOC, WIS.—C. B. Tremain is building up a flourishing business and is daily shipping a large cut of choice carnations and other stock to Milwaukee.

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G. H. R. is prepared to ship large quantities throughout the coming season. Lowest terms upon application.

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Hesperian Mixed, pkt., 25c.; trade packet, 50c.
Selected Mixed, pkt., 15c.; trade pkt., 30c.; ⅛ oz., 70c.; ¼ oz., $1.20; 1 oz., $4.00.
Extra choice Mixed, pkt., 10c.; trade pkt., 20c.; ⅛ oz., 50c.; ¼ oz., 75c.; 1 oz., $2.50; ½ oz. at 1 oz. rates. ☞ Catalogue describing 80 varieties and mixtures with "How to Grow Pansies" free to any address.

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GREENINGS are selling on the Liverpool apple market up to 22s. per barrel, $5.28.

ALVIN H. DEWEY, Rochester, N. Y., is now with the Brown Brothers Company.

A. L. QUAINTANCE has assumed charge of the Georgia Experiment Station at Griffin.

ELLWANGER & BARRY recently shipped 102,000 Downing gooseberries in one order from Iowa.

THE largest apple at the Trans-Mississippi Exposition weighed twenty-four ounces. It was a Wolf River.

J. H. DODGE, of Moulson & Co., Rochester, N. Y., and Miss Elizabeth. McGuire were recently married.

THE P. J. Berckmans nursery at Augusta, Ga., recently shipped a $2000 order to South Africa. It was mostly plums.

THE city of Joliet, Ills., is to have two new parks of a combined area of eighty-five acres, of which Mary V. Fish donates twenty-five.

THE Minnesota Horticultural Society has offered a prize of $1000 for the origination of an apple possessing certain prescribed merits.

C. B. KURTZ, a Kansas City nurseryman, has offered prizes to the fifty school children who shall write the best essays upon Ulmus Americana.

O. H. GALLUP, of Palermo, Cal., reports that the Yellow Transparent is as good an apple for California as it is for cooler western states.

G. M. CHASE, son of G. H. Chase, of the Chase Nursery Co., Maldin, Mass., and Miss Anna B. MacKeown, of Boston, were married early last month.

H. F. HILLENMEYER, the Lexington, Ky., nurseryman, has presented the city of Danville, Ky., with a number of shade trees for distribution among the citizens.

THE partnership existing in Parry's Pomona Nurseries, has been dissolved because of the death of Wm. Parry. J. R. Parry has sold his interest in the business to C. H. Parry.

WILLIAM FALCONER, superintendent of Schenley Park, Pittsburg, sailed from New York, December 10 for Jamaica in search of economic plants for the Phipps conservatory, which already has one of the finest collections in the United States.

Phlox Decussata Varieties.

On looking over our notes on phloxes we see that many of the new French varieties improved very much in color and habit as the season advanced. The dwarf varieties as a rule, and a few of the taller varieties, seem to have the habit of branching the panicles indefinitely. Some that started to flower early in August were making quite a show the first week in October and the panicles in some cases were over a foot in diameter. In this respect among the dwarf varieties we noticed Albatre, Fantaisie, Rodin, Suffrage, Thebaide and Torpilleur. Among the tall varieties we noticed Le Mahdi, Lumineux and Lord Rayleigh.

For the best six of the new dwarf varieties we should select Albatre, Jungefrau, Rodin, Suffrage, Thebaide and Torpilleur. For the best nine we should add Argon. Fantaisie and Fantome.

From the new tall varieties we should select for the best six, Coquelicot, Fiancee, Le Mahdi, Lord Raleigh, Lumineaux and Mars la Tour. For the best twelve we should add Amphitryon, Derviche, Fernand Cortez, Huxley. Mme. Miolan–Carvalho and Wm. Ramsay.

All the above have been described in former notes. Among the varieties we imported for extra large panicles, we noticed nothing very striking in that respect, but another season, when the plants are well established, the panicles may be much larger. Bicolor, in having more open flowers, is an improvement on James Bennett, but the color did not seem quite so good.

In the older varieties we should select for the best six, Commonwealth, dark crimson, shading to almost pure white; General Chauzy, bright salmon red; Independence, white, extra early and continuous; Iris, purple red, shaded violet blue; James Bennett, clear light flesh-pink, dark crimson eye; Saison's Lierval, pure white, small pink eye.

For the best twelve we should add Coccinea, bright, deep crimson; Czarina, white, later than Independence; Mrs. Dwyer, white, large crimson center; Mme. Meuret, salmon red, rather; early Oracle, light pink, crimson eye; R. P. Struthers, bright salmon, dark crimson eye.

For the best eighteen we should add; Cross of Honor, each petal rose-lilac with distinct white margin; Dedham, white shaded pink, small pink eye; Le Feu de Monde, bright red shaded salmon, later than Mme. Meuret; Mme. P. Langier, bright salmon pink; Ornament, clear pink; Pantheon, clear pink, light center.

For the best twenty-four varieties we should add Alexander Shearer, very bright red; Ixion, white shaded pink, dark pink eye, extra late variety; James Galloway, cherry red; Le Solil, clear pink, light center, extra early and continuous; Le Vaughan, lilac rose, crimson eye; Richard Wallace, white shaded violet, violet red eye.

Le Solil, Independence, Le Vaughan, Le Feu de Monde and Mme. Meuret are somewhat dwarfer than the others, but none of them are so dwarf as the new dwarf varieties. R. N.

Massachusetts.

Buffalo.

TRADE IS GOOD.—FLOWERS WERE SNOWBOUND.—EXCELLENT CHRISTMAS PROSPECT.—CLUB MATTERS.—JOTTINGS.

Trade last week was on the improve. Sunday we had snow, Monday fine; Tuesday and Wednesday we had a whole lot of things. Snow in the east and south stopped all trains and all we could do was to telephone out ten miles and know where the trains were, while the largest reception of the season was scheduled for Wednesday afternoon and it was a hustle to get flowers that were ordered, but I am happy to say that the decorator is still alive.

All are making preparations for a good Christmas. Holly will be in good demand but indications point to a scarcity of pine, and if the weather keeps as it is carnations and roses will be sold by the ounce and not by the hundred. The only time a look can be had of the different store and greenhouse men is at Kasting's in the morning; at other times they seem to be meditating on what they did in other years, while at their country greenhouses they are sitting up nights with their carnations and violets.

Kasting has discarded coal in his wholesale house and now heats with natural gas. Any day now you can get natural, illuminating or the other, furnished by the morning delegation.

The club has taken a little vacation after the show, but will get together after the holidays, when a subject will be introduced and debated that will be interesting to all, especially to the retail trade.

Phil. Scott has had a visitor, but not a welcome one. It was a carbuncle on his neck, but it is better now and he says that was the best place for him to have it as he has more room there. W. A.

Oshkosh, Wis.

The florists of this city will nearly all have chrysanthemums for Christmas, so late is the cut holding on; John Nelson has many blooms not yet ready. Mr. Nelson has nearly everything in his stock, including good blooms of narcissi and hyacinths, callas, azaleas, violets, carnations and roses.

Ferd. Flister also has a well grown general stock but his particular pride is a lusty young banana tree. John S. Wood makes a specialty of carnations and also grows violets well.

Isaac Miles and H. J. Brenneke each have nicely kept, modest establishments in which they will cut some very fine roses, carnations and violets for Christmas.

WARE, MASS.—F. A. & H. A. Tucker have rented a portion of Ruggles Bros'. store as a branch of their floral business.

HARDY SHRUBS
Assorted in 25 Varieties.
My selection $50 per 1000. Descriptive catalogue and price lists for the trade.
SAMUEL C. MOON,
MORRISVILLE, - Bucks Co., PA.

HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
JACOB W. MANNING,
The Reading Nursery, READING, MASS.
ESTABLISHED 1854

There Are Buyers
For all kinds of good stock advertised in.....
THE AMERICAN FLORIST

FIELD-GROWN ROSES $1 per dozen
80 varieties. Plants 1½ to 3 feet.
Address WM. K. NELSON, Augusta, Ga.

LATANIAS, 3-inch pots, $4.00 per 100, f. o. b.
H. Bornhoft, Park Ridge, Ill.

THE BOSTON FERN From $5 per 100 and $40 per 1000 to $1 each
A SPECIALTY. L. H. FOSTER,
45 King Street, DORCHESTER, MASS.

The "CREAM" OF THE HOLLY



IS VAUGHAN'S XXX BRAND

The kind with plenty of "red berries," and it "gets there."

IN CHICAGO { PER CASE, $5.50. / TWO CASES, 10.50.

IN NEW YORK { PER CASE, $5.00. / TWO CASES, 9.00.

SPECIAL PRICE FOR QUANTITIES.

We also have a small supply

OF THE "COMMON KIND" of DELAWARE HOLLY,

at lowest market rates.

OUR "QUICK DELIVERY" SERVICE is an advantage to you. Write or Wire.

EVERGREEN WREATHING.....

Holly Wreaths, Evergreen Wreaths decorated with Immortelles, Needle Pines, Chamaerops and Sabal Palm Leaves, fresh stock Immortelles, Cape Flowers, and other decorative material—we meet the market on this stock.

NOW READY:

Lily of the Valley, Spiraea, Dielytra, Gladiolus Colvillei Alba and Rubra.

Chicago, 84-86 Randolph St. **VAUGHAN'S SEED STORE,** New York, 14 Barclay Street.

I HAVE A LARGE STOCK OF

CLEMATIS

2 and 3-year old, extra strong, field-grown plants, finest sorts (with 30 per cent. Jackmanni), Henryi, Batemanni, Duchess of Edinburg, Gypsy Queen, etc. Price, $10.50 per 100, $100 00 per 1000. 1b. Id., without Jackmanni, $8.50 per 100. $80.00 per 1000. Clematis, I-2 year cultivated, in 5-6 inch pots, 40 per cent Jackmanni, $9.00 per 100, $80.00 per 1000; without Jackmanni, $8.00 and $75.00. References reqnested from unknown correspondents.

J. GROENEWEGEN,

Boskoop, Holland.

Mention the American Florist.

....AUTUMN 1898....

One Million

Flowering Shrubs; full assortment; all sizes.

Half Million...

Deciduous Trees for street, lawn and avenue planting.

200.000 Vines, Ivies, Clematis, Actinedia and other sorts. Correspondence solicited.

THE WM. H. MOON CO.

MORRISVILLE, PA.

It is good business policy to mention the

....AMERICAN FLORIST

when you write to an advertiser.

Special Winter Offer,

INCLUDING PREPAYMENT by parcel post or express, according to weight of order.

ORCHID BLOOMS—L anceps and L. autumnalis, until Dec. 15th, $2.00 per dozen; $12 00 per 100.

BULBS—Milla biflora, Bessera elegans, Cyclobothra flava, Tigridias Pavonia, Conchiflora and Rosea, per 100 $1.50; per 1000 $12. Amaryl is Formosissima and Pancratium "Spid-r Lily", $2 00 per 100.

CACTI—A collection of 25 different varieties $3.00. 100 Cacti in 6 good varieties, $6.00. Old Man Cactus per dozen $3 00.

ORCHIDS Lælias majalis, albida, anceps and autumnalis, $3.50 per dozen; $25.00 per 100 Odontoglossums Cervantesi. Maculatum, Nebulosum, Rossi, $3.00 per dozen; $20.00 per 100 Cattleya Citrina, $3 00 per dozen; $20.00 per 100. A sample collection of 20 different varieties, prepaid, $5.00.

Cash with order from unknown correspondents.

J. A. McDOWELL,

APARTADO 167, CITY OF MEXICO.

Mention American Florist.

Rose Hill Nurseries,

OUR SPECIALTY: Headquarters

Areca Lntescens, Kentia Belmoreana, Cocos Weddeliana, Kentia Forsteriana, Livistona rotundifolia, Phœnix rupicola, Phœnix reclinata, Araucaria excelsa, Pandanus, Ferns. The largest stock of Kentias in America.

SIEBRECHT & SON, New Rochelle, N. Y.

BEGONIAS AND GLOXINIAS

In any quantity.

SANDER, Bruges, Belgium.

AGENT: A. DIMMOCK,

60 Vesey Street, - - - NEW YORK.

Mention the American Florist.

ADIANTUM CUNEATUM...

Fine pot-bound stock, ready for a shift.

2½-inch, strong			$4.00	per 100
3	"	"	6.00	"
4	"	"	12 00	"
5	"	"	20.00	"

See Chrysantbemum Number for other stock.

Cash please. CARL HAGENBURGER, W. Mentor, O.

AZALEA INDICA.

Superb stock: to clear out a later consignment, we offer:

8-10-inch	per dozen,	$3.50;	per 100,	$25 00
10-12-inch	"	4 25;	"	32.00
12-14 "	"	5 50;	"	42 00
14-16 "	"	6 50;	"	52.00

SEND ORDERS QUICK.

Lil. Auratum, Rubrum, Album ready.

Special offer Lil. Longiflorum, 7-9-in., per 100, $3 net.

H. H. BERGER & CO., 47 Barclay Street, New York.

(ESTABLISHED 1878.)

2000 PRIMULA CHINENSIS.

in fine bloom for Christmas, 4-in. pots, $12 per 100.

200 fine AZALEAS, in bloom, 6-inch pots, $1.50 to $2.00 each.

500 4-inch pot SWORD FERNS, Exaltata Compacta, $15.00 per 100. CASH WITH ORDER.

W. L. PALINSKY, 66 Palmer Ave., Chicago.

SPECIALTIES IN BEST VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

CHRYSANTHEMUMS.

SMILAX.

Prices low. Send for list. VIOLETS.

WOOD BROTHERS, FISHKILL, N.Y.

F. & F. NURSERIES SPRINGFIELD, NEW JERSEY.

Wholesale Growers, TREES & PLANTS in Full Assortment. TRADE CATALOGUE FREE

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

THE New Jersey Floricultural Society has invited a bowling team from the New York Gardeners' Society to participate in its annual dinner January 6 and roll a match game.

Pastimes at Orange.

The New Jersey Florists' Bowling Club has been indulging in steady practice once a week since last September. Here are the scores for the game of December 9:

Name.	1st.	2d.	3d.	Ave.
Walter Gray	146	154	178	159
George Smith	154	96	153	134
Joseph Manda	118	128	151	132
F. W. Massmann		91	163	127
Geo. Van Qualm	126			126
John Scroll	114	118	136	123
James Wood	87	129	149	122
Henry Bohsen	98	109	105	104
Wm. Grant	87	119	92	99
August Meyer		92	105	99

With Cleveland Bowlers.

Last Monday evening witnessed the first competition for the new gold badges provided for those who can prove their superior skill on the alleys. The badges are very pretty in design and well worth contesting for. One is for the individual making the highest score of the evening in one game. The other goes to the proprietor of the highest average. Mr. Henry Kunz didn't do a thing but walk off with both of them. There was a fair attendance and interest was keen:

Name.	1st.	2d	3d	Ave.
Henry Kunz	144	145	188	159
Pentecost	137	173	132	147
A. H. Graham	150	156	112	139
A. Hart	164	120	122	135
J. Wilson	87	156	151	131
A. Graham	113	156	107	125
C. J. Graham	124	122	125	123
Stephan	90	150	107	116
H. Hart	81	98	146	108

A.

Florists Defeat Gardeners.

Monday, December 12, 1898, was a great day for the New York bowlers. Not for years has such an enthusiastic assemblage of the florist bowling element been seen here and the wisdom of the club's generous appropriation for the encouragement of this feature was apparent to all who looked in upon the jovial party at Brinkana's alleys on Monday afternoon. The four alleys were all kept busy and were pronounced to be all right in every requirement by the twenty-five or more participants in the various games that were rolled. An informal challenge had been issued to the Gardeners' Society, to meet the representatives of the Florists' Club and this contest was the big event of the day. The two clubs lined up as follows:

Florists—T. Roehrs, Burns, Hafner, Penman, Atkins and T. Lang.

Gardeners—O'Mara, Logan, Plumb, Troy, J. Manda and Bartholomew.

When the smoke had cleared away it was found that the florists were victors in two games out of three by a score that gave a substantial margin but was not remarkable. Lawrence Hafner's trophy, a silver match box, was won by Theo. Lang, with a score of 185.

With Chicago Bowlers.

A meeting of the Chicago Florists' Bowling Club was called to decide in regard to prizes for ensuing games and the members voted to issue a gold medal for the highest average score made during twenty-four games to be played from the beginning of the new year. Also a gold medal to be given to the member making the highest individual score during above mentioned time. Members must play at least sixteen games to be eligible in this competition. It was also decided that games played on Florists' Club meeting night would not count in this competition. It was further agreed to play match prize games on Thursday night instead of Friday night as heretofore. George Asmus was elected to membership, bringing the roll up to fifteen.

Following is the score rolled, after which Phil. Hauswirth and Ed. Winterson made new records at four back, the former scoring 69 and the latter 71:

Name.	1st.	2d.	3d.	Ave.
C. W. McKellar	143			143
August Lange	141			141
John Degnan	133	132	117	127
J. S. Wilson	142	125	112	126
P. J. Hauswirth	124	130	112	122
Walter Kreitling	125	121	112	119
Jas. Hartshorne	113	123	85	107
E. F. Winterson	104			104
Alex Henderson	86	99	95	93
M. Barker	69			69

The November Record at Philadelphia.

A. L. Brown finished with first average in the November contest on the Florists' Club alleys in Horticultural Hall. These alleys, for some unknown cause, are considered to be the most difficult in the city, says the Philadelphia *Ledger*. They are regulation in every respect, with exception of the foot run, which is three feet short. In comparison with the bowling on the Century Wheelmen's alleys, G. O. Bell bowled an average of 159 for thirteen games at the Century, while the best he could do on the Florists' alleys was 140 for fourteen games. The averages follow:

Name.	Games.	Pins.	Ave.
A. L. Brown	19	2906	152
N. Moore	22	3248	147
J. Westcott	12	1636	146
D. T. Conner	17	2459	144
R. Kift	31	4472	144
T. Archer	15	2119	141
G. Moss	28	3950	141
G. O. Bell	14	1969	140
G. Anderson	31	4347	140
W. Baker	32	4435	138
W. C. Smith	31	1293	138
David Rust	14	1937	138
C. Longinotte	31	4220	136
J. P. Habermebl	17	2288	134
G. Craig	10	1343	134
John Walker	25	3313	132
R. Kienle	12	1463	121
J. King	19	2215	116
J. Burton	18	2095	116
W. Gibson	19	2127	111

Cleveland.

TRADE VARIABLE.—STOCK SHORT.—FEW CHRYSANTHEMUMS REMAIN UNCUT.—PADDOCK NAMES A YELLOW FOR ADAM GRAHAM.

Business continues sometimes fairly good, other days somewhat dull. There is, however, quite a general complaint as to quality and quantity of flowers offered. In spite of somewhat sluggish trade there has been some stringency and it is more keenly felt now that chrysanthemums are practically out of the market. There are of course a few late ones still in the hands of various growers, but they are being carefully husbanded for use at Christmas. Probably the largest lot of these is in the hands of A. Graham & Son, who have one house but little cut as yet, the sorts being W. H. Lincoln, W. W. Coles, V. H. Hallock, Niveus and Mrs. Jerome Jones. Speaking of this latter sort reminds one of E. J. Paddock's golden yellow sport of Jerome Jones. It is truly a most beautiful thing, having all the elegance of form and carriage that characterizes Jerome Jones as well as its health, vigor and certainty of blooming qualities. The color is beautifully soft and while somewhat unusual it is not freakish in tint. It has been named for Adam Graham. Wherever tried in the east and elsewhere the reports are unanimously in its favor. A.

Helpful Reminders.

Now that cold weather has come to stay, the transportation of stock is an essential item for consideration and to some, who have not made suitable preparations, it is a perplexing one. Quite a number of florists have procured closed wagons and fastened in small stoves, which overcomes one difficulty but furnishes others; they are troublesome and dangerous, and while they render the delivery of cut flowers in boxes comparatively easy, the growing popularity of plants requires some covering in moving them from the wagon to the house. Oil stoves are used, but are troublesome on rough roads, hot bricks and other contrivances similar to those used for warming feet in carriages, but I have adopted a plan that is more simple and satisfactory than anything I have yet seen. A few boxes, well built, of half-inch boards except the ends, which are thicker, are made in different sizes, say 12x12x 72, 18x18x120, 10x18 x68. The covers are arranged in one piece with cleats and fastened down with rope or straps. With these three sizes all ordinary sets of plants are easily packed by laying down; put in one or two Mason jars of hot water with each box and they will keep frost out for a long while. For large decorative plants that cannot be handled in these boxes, a canvas covered frame is used and, to keep the wagon warm, two or more large milk cans are filled with hot water.

In arranging the carnation in decorations its own foliage is preferable, but in large arrangements monotony is avoided by adding other foliage. The most beautiful effects are made with pink carnations and the gray-green foliage. The Cineraria maritima is very good for this. Asparagus Sprengerii, running into yellow green, as it does, occasionally works in well.

If you had Clematis paniculata blooming this fall you would better pick off all the seed and save it in a dry place; it grows from seed easily.

Acacias are showing bud and starting new growth and should be given plenty of light and nutriment from now on. For cutting a plant should be arranged in open ground, where it soon becomes a large bush and bears drooping branches of yellow that can be cut almost by the armful.

Freesias that are started early in flats or pots are the better for a little feeding, as they draw from the soil continually both for the formation of flower and strengthening the tuber for next season's growth.

You should not be without the blue marguerite, Agathæa cœlestis, now if you are catering to the demands of cut flower buyers. A few plants given an open bench in a warm temperature will soon produce long-stemmed daisies of light blue with yellow center, a color which is rare in flowers. C. B. W.

VAUGHAN, McKELLAR & WINTERSON.

Xmas CUT FLOWER Prices

Taking Effect Monday, Dec. 19th.

ROSES. Per 100.

Brides, Maids, Meteor, 10.00 to 15.00
Kaiserin, La France....10.00 to 15.00
Perle, other teas..... 8.00 to 12.00
Roses, our selection.....10.00 to 12.00

CARNATIONS.

Fancy stock, extra..... 5.00 to 7.00
Select " 4.00 to 5.00
Ordinary " 2.50 to 3.50

CHRYSANTHEMUMS.

Fancy varieties.....15.00 to 25.00
Medium stock..... 8.00 to 12.00
Ordinary stock..... 4.00 to 6.00

MISCELLANEOUS STOCK.

Valley..... 4.00 to 5.00
Violets..... 1.50 to 2.50
Narcissus..... 3.00 to 5.00
Romans..... 3.00 to 4.00
Callas.....18.00 to 25.00
Harrisii.....20.00 to 25.00
Orchids, Cattleyas.....doz., 10.00
" Cypripediums..... " 3.00
" assorted box..... 10.00

Above prices subject to change without notice.

GIVE US XMAS ORDERS EARLY.

SPECIAL!

POINTETTIAS, good....per doz., $3.00
" select... " 4.00
" extra... " 5.00

DECORATIVE STOCK.

Wild Smilax, parlor brand.....$3.75
" " medium case..... 5.50
" " large " 8.00
Asparagus Plum., doz., $6.00 to 8.00
" " string, .50 to .75
Smilax.....per doz, $1.50 to 2.00
Adiantum Ferns...per 100, 75c to 1.00
Common " ... " .15
" " ... " 1000 1.50
Galax Leaves..... " 1000, 1.00
Farleyense Fronds.....doz., 1.50

We always have good stock of above on hand and can fill orders promptly.

CYCLAMEN PLANTS.

Fine plants for Xmas sales; good assortment colors; well flowered.

Now ready for shipping direct from greenhouses. By Express only.
1000, 5-in. pots at.....$25.00 per 100
500, 6 " 50.00 "

XMAS STOCK.

Order now and secure best stock shipped at proper time.

HOLLY, GREEN & MISTLETOE.

We will meet quotations of any reputable western house.

We have fresh stock of all the following goods:

Cape Flowers, Immortelles,
Pampas Plumes, Fairy Flowers,
Sheet Moss, Sphagnum Moss,
Vases, Ribbons, Doves,
Wheat Sheaves, Tin Foi , Toothpicks,
Violet Foil, Baskets, Bouquet Pins,
Chenille, Cycas Leaves

and everything used by florists.

OUR STORE OPEN 7 A. M. TO 7 P. M.
SUNDAYS AND HOLIDAYS
7 A. M. TO NOON.

TELEPHONE MAIN 1129. **VAUGHAN, McKELLAR & WINTERSON,** 45-47-49 Wabash Ave., CHICAGO.

When writing mention American Florist.



Dreer's Special Offer of

ARAUCARIAS for the HOLIDAYS

OUR stock of Araucarias is in fine condition, especially the medium and larger sizes, for which the demand during the holidays is always very strong.

ARAUCARIA EXCELSA.

4-inch pots, 6 to 8 in. high, 2 to 3 tiers.....60 cents each
5 " 12 to 15 " 3 to 4 "$1.00 "
6 " 15 to 18 " 4 to 5 " 1.50 "

ARAUCARIA EXCELSA GLAUCA.

5-inch pots, 8 inches high, 2 tiers.....$1.00 each
6 " 12 to 15 " 3 " 1.50 "

ARAUCARIA ROBUSTA COMPACTA.

6-inch pots, 10 to 12 inches high, 3 tiers.....$1.50 each
6 " 12 to 14 " 3 " 1.75 "
7 " 15 to 16 " 4 " 2.00 "

HENRY A. DREER, 914 Chestnut St., Philadelphia.

Adiantum Farleyense.

FINE PLANTS

In 5-inch pots at $9 00 per dozen.

EDWIN LONSDALE, Wyndmoor.

Money order office, Sta. H. Philadelphia. Chestnut Hill, PHILADELPHIA.

50,000 SEEDLINGS NOW READY.

Cyclamen Persicum Splendens (giganteum), transplanted from flats, in four true colors, $3 per 100. $25 per 1000. **Cineraria** Hybrida Nana and Grandiflora, from flats, $1 50 per 100. **Chinese Primroses** in finest mixture, from 3 in. pots, $4 per 100; from 4-in. pots, $5 per 100. **Geraniums, Ivy Geraniums, English Ivy,** prices quoted on application.

SATISFACTION GUARANTEED.

MADER & STEMPLE CO. Ltd., E. Stroudsburg, Pa.

SPIRAEAS Japonica.....Per 100, $3.50
Compacta..... " 6.00
Astilboides Floribunda " 6.00
Palmata, b'utiful pink " 10.00
Extra strong clumps.

F. L. ATKINS, Orange, N. J.

Los Angeles.

BUSINESS GOOD BUT RAIN IS BADLY NEEDED. —A FINE NEW STORE.—PERSONAL MENTION.

The florists have enjoyed a good autumn trade, one of the principal stores reporting business fifty per cent better than a year ago, but still the trade generally anticipates a decided improvement. So far this season this section of the state has not been visited by Jupiter Pluvius and his arrival is anxiously awaited as a rain is all we need to insure a good winter.

The Redondo Floral Company, of Redondo Beach, has opened a store at 246 S. Spring street where they will dispose at retail of the entire output of their gardens. This is the finest store in the city and several thousand dollars were spent in fitting it up. They celebrated the opening by giving away all the flowers they could cut from twelve acres of carnations. John Schlaloss is manager, with Miss Catharine Sexton assistant.

Morris Goldenson, the florist with the Ellington Drug Co., gave an opening recently. The store has been greatly enlarged and entirely refurnished. Morris celebrated the completion of the improvements by presenting visitors with all the carnations, roses and chrysanthemums he could buy.

Capt. F. Edward Gray has lately received the gold and silver medals awarded him by the Hamburg Exposition for his superior strains of amaryllis and gladioli. Jacob Dietrich deserves a medal. It's twins.

Thos. Patch, formerly with Pitcher & Manda, is now in charge of the Ingleside nurseries at Alhambra.

W. G. Bertermann, of Indianapolis, and Ernst A. Asmus, of New Jersey, are spending the winter in southern California.

B. F. Collins, one of the oldest florists in the city, retired from business on December 1.

R. Leithead, in charge of the Raymond nurseries, has 5000 Scott carnations nicely in bloom in the field that are doing remarkably well. He is testing some of the latest eastern varieties for field culture. D. R. W.

London, Ont.

J. Gammage & Sons have a store on Dundas street, the principal business thoroughfare of the city, which is one of the finest and best equipped in the province and their greenhouses on the outskirts of the city have undergone many improvements—they have added three carnation houses, each 10x180. Mr. Gammage reports the best trade they have had in years, the demand for cut flowers, being on the increase among all classes. Their chrysanthemums this fall were the finest grown in this section and sold readily at fair prices.

The London Floral Co., which has succeeded Ed. West, has remodeled the store, adding a handsome and spacious conservatory. They report business brisk and encouraging.

The law makers at Ottawa have evidently arrived at the conclusion that what is "sauce for the goose is not sauce for the gander," or vice versa. Far be it from my intention to question the wisdom of that honorable body, yet I am constrained to confess being at a perfect loss to account for the wisdom of a law that admits kentias and latanias free of duty and imposes a tax of twenty per cent upon Ficus elastica, pandanus and dracænas. HOMO.

Only a Few Copies Left

—OF OUR—

TRADE DIRECTORY FOR 1898

Send your order now if you want it. Price $2.00.

AMERICAN FLORIST COMPANY,

324 Dearborn Street, - - - - - CHICAGO.

Carnation Seed

Hand fertilized from the finest named winter-blooming varieties Try your hand at securing a PRIZE WINNER. To encourage competition we will for sixty days send sample order of ONE HUNDRED fresh seeds on receipt of..... *25 CENTS*

our former price having been One Dollar per 100.

AMERICAN ROSE CO. WASHINGTON, D. C.

THE WABASH R. R. COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A., 387 Broadway, New York City,

J. D. McBEATH, N. E. P. A., 5 State Street, Boston, Mass.

C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

SHIPPING LABELS FOR Cut Flowers

Size 4¾x6 inches, printed in red on gummed paper with leaf adopted by the S. A. F. Price with your card, 500, $2.85; 1000, $4.50. Samples free.

ELECTRO OF THIS LEAF, POSTPAID, $1.25.

American Florist Co., CHICAGO.

Orchids!

We a now booking orders for CATTLEYA LABIATA for spring delivery. Early orders solicited.

LAGER & HURRELL, SUMMIT, N. J.

Azalea Indica, full of bud, 10 to 12-inch, $3 50 per doz.
" " " 14 to 16-inch, 6 00 "
Cinerarias..... 3-inch, $3 00 per 100
Palms, best assortment, 5 & 6-in. pots.....$7.00 per doz.
New Chrysanthemums, Frank Hardy and Merry Christmas, large clumps.....$1.00 per doz.
Rooted cuttings of same..... $3.00 per 100.
Cyclamen Giganteum, 4-inch.....$10.00 per 100.

WHITTON & SONS, Wholesale Florists, City and Green Sts., UTICA, N. Y.

Tell them where you saw the ad.

PLANTS FOR DECORATORS.

The season for plant decorations is at hand and any of these will be a useful addition to stock, being bright, fine colored elegant specimens. Packed in pots, by freight, if desired.

	per dozen
ARECA LUTESCENS, 8-in. pots, 4 to 5 ft..	$18.00 to $24.00
ARECA LUTESCENS, 6-in. pots, 3 to 4 ft..	12.00
OREODOXIA REGIA, light graceful, 5 to 6 feet	18.00
NEPHROLEPIS BOSTONIENSIS, 8-in. pans, 3 to 4 ft. over	18 00
ADIANTUM TENERUM, 8-in. pans	9.00

CASH WITH ORDER.

JOHN H. LEY, Good Hope, - - Washington, D. C.

..STOCK 'MUMS..

Frank Hardy	Pennsylvania and
Mrs. H Weeks	$2.50 per doz.
Belle of Castlewood	Major Bonnaffon
Dorothy Devans	Mayflower
Evangeline	Midge
Fitzwygram	Modesto
Georgiana Pitcher	Mrs. R. Crawford
Golden Trophy	Rose Owen
Golden Wedding	Western King

$1.50 per dozen.

Orders for two dozen or more accompanied by the cash will be sent express prepaid.

THE PARK FLORAL CO., Denver, Colo.

PALM Seed. FRESH ON HAND

	100	1000	3000
Kentia Belmoreana.....	$1.00	$6.50	$15.00

J. L. SCHILLER, 404 East 34th Street, NEW YORK CITY.

It is time you were thinking about

CARNATION STOCK

for next season. It pays to buy only the best. Will have them in large quantities, of all the leading commercial varieties. Ready Jan. 1st and later. Write me for prices.

Address CHAS. CHADWICK, Lock Box 11. Grand Rapids, Mich.

ANTON SCHULTHEIS,

P. O. BOX 78, College Point, Queensborough, New York, N. Y.

HEADQUARTERS

For Ericas (Heather); also full line of other Flowering Plants.

PALMS and DECORATIVE PLANTS IN QUANTITY.

Come, see and convince yourself.

CARNATIONS

F. DORNER & SONS CO., La Fayette, Ind.



GEO. WITTBOLD

Established 1857,
'Phone Lake View 136

GROWER AND IMPORTER OF

Tropical Plants

1708 North Halsted St., CHICAGO.

If you want any goods in our line we can give very best of satisfaction in every respect. We want your future trade and know a trial order will make you a regular customer for whatever of our goods you may need. We hope to be favored with a trial order. Satisfactory references or cash must accompany all orders from parties with whom we are not acquainted. Following is a list of the stock we offer. It is in excellent condition and we are confident we can please you, both as to quality and price.

PALMS.

Measurements, top of pot to top of tallest leaf.

Varieties.	Size Pot.	Height Inches.	Character Leaves.	Prices. Each.	Doz.
ARECA LUTESCENS	5-inch	22-26	6-10	$.50	$5.00
" "	6 "	24-28	8-10	.75	9.00
" "	8 "	40-50	15-20	2.50	30.00
COCOS WEDDELIANA	3 "	10-14	4-6	.25	2.50
KENTIA BELMOREANA	6 "	24-26	5-7	1.50	18.00
" "	8 "	36-40	4-6	2.50	30.00
" FORSTERIANA	6 "	32-36	3-5	1.25	15.00
LATANIA BORBONICA	4 "	14-16	2-3	.25	3.00
" "	6 "	20-24	5-6	.75	9.00
" "	8 "	24-30	5-6	1.50	18.00
" "	9 "	34-36	7-8	2.50	30.00
PHŒNIX RECLINATA	5 "	18-20	4-5	.50	5.00
" CANARIENSIS	6 "	22-26	5-6	.75	9.00
" "	7 "	26-30	8-10	1.00	12.00

If in need of large specimens of Latania Borbonica, Corypha, Areca Lutescens, Pandanus Utilis or Veitchii, etc., write us for sizes and prices.

MISCELLANEOUS.

	Each.	Doz.
ARAUCARIA EXCELSA from 6-in. pots, perfect plants	$1.50	$18.00
" " " 7 " " "	2.00	24.00
" " " 8 " " "	3.50	40.00
ASPARAGUS SPRENGERII, 4 " nice plants	.20	2.00
" " 5 " "	.25	3.00
" " 6 " "	.50	6.00
" PLUMOSUS NANUS 2 " " $5 per 100		
" " " 3 " "		1.00
" " " 4 " "		1.50
DRACÆNA FRAGRANS, strong plants from 5-in. pots	.50	5.00
PANDANUS UTILIS " " 5 "	.50	5.00
" VEITCHII " " 7 "	2.00	24.00
PEPEROMIA VERSCHAFFELTII " " 3 "		1.00
" " " 4 "		1.50
SANSEVIERA JAVANICA VARIEGATA 3 "		1.25
CYPERUS ALTERNIFOLIUS, strong plants, 4 "		1.00
" " 5 "		1.50
SELAGINELLA EMILIANA nice plants from 4 "		1.50
" MARTENSII " " 4 "		1.50

FERNS.

Varieties.	Size pot.	Doz.	per 100
ADIANTUM CUNEATUM	2-inch	$.50	$4.00
" "	3 "	1.00	8.00
" "	5 "	2.00	16.00
CYRTOMIUM FALCATUM	3 "	1.00	8.00
LOMARIA GIBBA	3 "	1.00	8.00
" "	4 "	1.50	12.00
NEPHROLEPIS PECTINATA	4 "	1.50	12.00
" "	6 "	3.00	25.00

Varieties.	Size pot.	Doz.	per 100
NEPHROLEPIS EXALTATA	4 "	1.50	12.00
" "	5 "	2.00	16.00
" BOSTONIENSIS	10 " $2.50 each	30.00	
" PHILIPENSIS	4 "	1.50	12.00
PTERIS UMBROSA	2 "	.50	4.00
" SERRULATA	2 "	.50	4.00

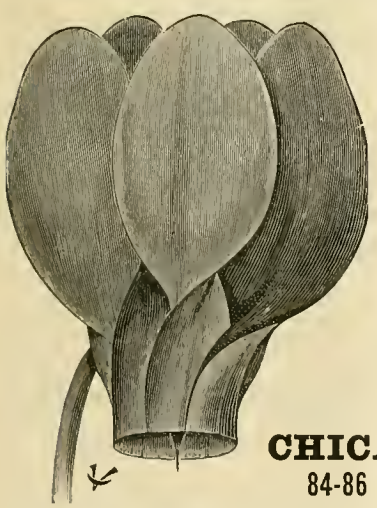
SOIL.

Pine Needle Soil, large barrel, $1.50 each.

WREATHING.

We keep in stock Wreathing made both from Cedar and Lycopodium and are offering same at $4.00 per 100 yards.

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NEW SEED OF **Cyclamen** PERSICUM GIGANTEUM,

In the following separate colors: **Pure White, Bright Crimson, White with Crimson Eye and Rose (Von Marienthal).**

This Cyclamen seed has been grown especially for us by a most concientious florist, and we know that it will give entire satisfaction. **$5.00 per 1000 seeds; 100 seeds, 75 cents.**

NEW CROP OTHER FLOWER SEEDS FOR PRESENT SOWING, SUCH AS STOCKS, VINCA, PETUNIA, LOBELIA, VERBENA, ETC., ALSO ON HAND.

CHICAGO, 84-86 Randolph St. **VAUGHAN'S SEED STORE,** **New York,** 14 Barclay Street.

PALMS FOR CHRISTMAS TRADE; no lice, fine bushy dark green stuff. Latania, 6-in., 75c; per doz., $8; per 100, $62; per 1000, $550—7-in., $1; 8-in., $1.50; 9 to 14-in., $2 to $10 each. Kentias, elegant, healthy plants, 5-in., 75c to $1; 6-in., $1 to $2; 7-in., $2 to $3; 8-9 in., $3 to $5 each. 100,000 strong Latania Seedlings, $25 per 1000. **Asparagus Plumosus** and **Tenuissimus**, 3-in., 10c; $8 per 100; 4-in., 20c; 5-in., 35c. **Sword Ferns**, 4-in., $12c; per doz., $1.25; $10 per 100—5-in., 20c; per doz., $2; per 100, $15. Ferns for dishes, very fine plants, best vars., $3 per 100; $25 per 1000. **Pandanus Utilis**, 6-in., 75c; 7 in., $1; 8-in., $1.50. Deep green color. **Pandanus Veitchii**, well colored, 6-in., $1.50; 7-in., $2; 8-in., $2-$3. **Rubbers**, 5-in., 50c; per doz., $5; per 100, $35—6, 7, 8-in., branched or sgl., 75c to $3 each. Fine **Chrysanthemum** flowers for Xmas, $2 to $3 per doz., 3 colors. Visit us when in Chicago.

ALBERT FUCHS

26 model greenhouses. Medal Awd. on Palms, World's Fair, 1893.
2059-73 N. Halsted St., CHICAGO, ILL.

ASPARAGUS

50,000 plants in 2½-inch pots, $5.00 per 100, Xpress; 24 for $1.50 by mail.
Specimens for 8-inch pots, $6 per 12.

A. BLANC & CO. PHILADELPHIA. **SPRENGERI.**

BON TON. The best **SCARLET CARNATION.** Rooted Cuttings ready now. $4 per 100; $35 per 1000.

Evelina	Gold Nugget	Mrs. Joost
White Cloud	Armazindy	Mrs. Jas. Dean
Victor	Flora Hill	Mrs. Bradt
Argyle	Jno. Young	Psyche, Etc.
Empress	Triumph	Ready Jan. 1st.

No order too large. None too small.
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Special prices to those who issue lists or who buy to sell again. Let us know what you are likely to need and get prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

Cincinnati.

CARNATION EXHIBIT BY THE FLORISTS' SOCIETY.—FLOWERS SCARCE BUT MANY GOOD BLOOMS DISPLAYED.—MANY SEEDLINGS.—THE CLUB MEETING FOLLOWS.

The carnation meeting held December 10 was not up to expectations owing to the scarcity of that flower. Few of our home growers entered into the cash prize contest. The following were exhibitors of standard varieties: Wm. Murphy staged Armazindy, Mrs. Geo. Bradt, Flora Hill, Gold Nuggett and Portia. Thomas Windram, of Newport, Ky., made a creditable display with Mrs. Geo. Bradt, Scott, Flora Hill, Daybreak, Victor and Evelina. George & Allen entered Mrs. Bradt, Wm. Scott, Flora Hill and Armazindy and captured the $5 prize offered by Wm. Murphy for best 100 blooms standard varieties. This firm also made a grand showing in roses, Perle, Bride, Bridesmaid, Meteor, Morgan and Beauties; they also carried off the $5 prize for twelve Beauties offered by Geo. S. Bartlett. In bulbous flowers they were also in the lead. Hoffmeister Floral Co. showed a magnificent vase of their new rose, Miss Clara Barton. The judges seemed to be favorably impressed with it and no doubt they will receive a special certificate at the March meeting.

In the seedling classes more interest was manifested. J. M. Gasser, of Cleveland, showed his new pink, Merrimac, but his box arrived in poor condition, much to everyone's regret. F. Dorner & Son, La Fayette, Ind., exhibited Gen. Maceo, a very dark velvety crimson; flowers medium, stem strong enough to hold the blooms gracefully. G. H. Crane, exhibited by the same firm, made a grand showing; color bright red, flowers large and full, calyx perfect and judging from the stem and foliage it must be a robust grower. E. G. Hill & Co., Richmond, Ind., showed one vase of their new aspirant, America, which should become famous. The flower is large and perfect, color a striking red, stem and foliage clean and healthy. H. Weber & Son, Oakland, Md., showed a seedling, No. 38–96, flower large and full, color shell pink very pleasing, stem stiff and strong. Peter Fisher, Ellis, Mass., sent his Mrs. Thomas W. Lawson. These new comers will have to be shown again at the March meeting in order to receive the special certificate of the society. R. Witterstaetter showed a collection of seedlings and worthy of note among them was No. 557 A. This was the largest bloom in the hall, in color delicate pink, form and calyx perfect, but it lacked somewhat in stem. No. 547 A. is a bright fringed scarlet, very fragrant and an all around perfect flower.

In the evening the regular monthly meeting of the Florists' Society was held and fairly well attended. Five new members were elected. After the regular business was transacted, the nomination of officers for the coming year took place. The election will occur at the January meeting and a jolly good time is in store for that night, as the present board of directors will treat the boys to a smoker and luncheon. J. Bertermann, of Indianapolis, was an interested visitor at the club. H. SCHWARZ.

FRANKFORT, KY.—Henry N. Craik, superintendent of the Frankfort cemeteries, and George Munich, formerly of Batavia, N. Y., have formed a partnership under the name of Munich & Craik. They have 6,000 feet of glass.

For the Busy Florist:

EVERGREEN WREATHING

Good florist grade, $4.00 100 yds.

Holly and Green Wreaths, Mistletoe, Palmetto Leaves, Needle Pines, Etc.

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Delaware **HOLLY.**

WE have made greater efforts than ever to secure the best Delaware HOLLY, and with our system of reinspecting it before shipping it is sure to give satisfaction.

BOUQUET GREEN, direct from the woods.

We also carry a large stock of

Green Wreathing, Cedar Wreathing, Mistletoe, Holly Wreaths, Etc.

Write us for our quotations before buying elsewhere.

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Case B.—same as A. with 200 Sprays.
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Case E.—5000 Galax, small bronze.
Case H.—5000 Galax, large green.
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Case L.—500 Leucothoe Sprays.

PRICES.

Galax, green or bronze, either size, $1.25 per 1000. Case of 5000 or over, $1.00 per 1000. Sprays, $1.00 per 100, $8.00 per 1000.

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GRANDIFLORA.
CAPE JESSAMINE.
GARDENIA FORTUNEI.

Bloom half again larger than G. Florida. Northern florists retailing at 75c to $1.00 each. Nothing better for Christmas Decoration:
18 to 24 inch.....per 10, $1.00; per 100, $7.50.
2½ to 4 feet " $1.25; " $9.00.

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LAUREL, HOLLY, XMAS TREES, ROPING OF ALL KINDS, WREATHS, GALAX LEAVES, PALM LEAVES and CROWNS, LONG NEEDLE PINES, WILD SMILAX and everything in the DECORATIVE LINE.

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Northern Michigan Evergreen Nursery,

SCHOONER MARY COLLINS, | S. W. Cor. Clark St. Bridge, CHICAGO.
H. Schuneman, Capt.

Sweet Peas For Easter..... SOW SEED NOW.

EXTRA EARLY BLANCHE FERRY, pink and white, lb. 50c, ¼ lb. 15c, oz. 5c.

EMILY HENDERSON, white, lb. 40c, ¼ lb. 15c, oz. 5c.

NEW COUNTESS, lavender, lb. 60c, ¼ lb. 20c, oz. 10c.

SEND for list of other kinds. If by mail, add 8 cents per pound for postage.

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VEBENAS and other stock. Our stock is fine and prices right. Send for price list and sample. Express prepaid.
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	Per Doz.	Per 100
ROOTED CUTTINGS	$.50	$3.00
2½-INCH POTS	.75	5.00

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XX strong plants, per doz., $3.50; per 100, $27.50
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Medium size, " 2.00; " 12.00
ERICA FRAGRANS, 5 & 6-in. pots, per doz., 4.50
Extra fine plants.
DUTCH BULBS & INDIAN AZALEAS now at hand.
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Correspondence solicited before you place your orders.....

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NO RUST OR MILDEW.
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Well-rooted cuttings, best varieties, mixed, $1.00 per 100; $9.00 per 1000.

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Extra strong plants, 15 cts. per 100; $1.00 per 1000; $8.50 per 10,000. If by mail, add 10c per 100.
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We are Headquarters for all '99 Novelties. Also complete list of best commercial varieties.

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We have a large stock of such varieties as **Duke of Marlborough, Alsace, Gloriosa, Maiden's Blush, Rosemawr, Queen Charlotte, Italia, Austria.** Write for prices.

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(ROSE GROWERS.) WEST GROVE, PA.

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	Per 100	Per 100
Argentea guttata	2-inch, $2.00;	3½ inch, $4.00
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Bertha Chatteaurocher, Robusta	3½-inch,	4.00
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GERANIUMS, Harmine, La Favorite and White Swan.	2¼-in.	$1 50	$10.00
Up-to-date, our selection	"	2.00	15.00
BEGONIAS, flowering	2¼ & 3-in.	2 00	15.00
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5 plants at 100 rate.

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In this specialty we are prepared to supply the trade with Henry Dreer's latest set of new seedlings, sent out this year, the most gorgeous set of Petunias in existence. We have three houses planted for cuttings, so are prepared to supply unlimited quantities on short notice. Strong two-inch pot plants, $2 00 per 100; strong rooted cuttings, $1.00 per 100. Place your orders early, as there will be a great demand for this stock. No orders solicited for less than $1 00. Cash with order. Send for circular.

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By prepaid express, all parts U.S.	Per doz.
PALM LEAVES—assorted	30c
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ASPARAGUS SPR.—10 to 20 inch sprays	24c
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No order less $1.00.

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TRANSPLANTED PANSY PLANTS.

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Finest mixed. Good little plants for cold frames. $4.00 per 1000, express.
Seed, $1.00 per pkg, $5 00 per ounce.

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Grower of the Finest Pansies.

Pittsburg.

CARNATIONS ARE SCARCE IN THE SMOKY CITY.—CHRISTMAS GREENS.—VISITORS AT FISHER'S.—JOTTINGS.

Stock is fairly plentiful with the exception of carnations, which are scarce, especially white. Christmas greens are in abundance with the exception of ground pine, of which there will not be enough to meet the demand. There is complaint about the quality of holly; it is not up to the standard in many cases.

John Murchie, Sharon, Pa., had the misfortune to have the boilers at his greenhouses burned out during the severe cold weather of last week. Mr. Murchie secured a temporary connection with a neighbor's boiler and was thus enabled to save his stock from being a total loss. A new boiler will be put in at once, but it will require some time to recover the lost ground. He has not made an estimate of his loss as yet, but it will be heavy on account of being so near the holidays.

James Dell, formerly at 508 Smithfield street, has opened an office at 911 Penn avenue for the sale of fruit and ornamental trees and flowers. His many friends are glad to see him again in the florist business. J. F. Gibbs & Son, 5515 Fifth avenue, have been succeeded by S. Gibbs & Sunshine, the former a son of J. F. Gibbs. The latter has been a landscape gardener. J. F. Gibbs & Son will continue as before at Woodville and in the Allegheny Market.

At McKirky's greenhouses near Shousetown a fire occurred resulting in the destruction of a house of American Beauties and Harrisii lilies which would have been ready to cut Christmas week. The place was insured.

A very pleasaut party visited Mr. Fisher at Castle Shannon, on December 11. Mr and Mrs. Chas. Hoffmyer, Mr. and Mrs. Julius Ludwig, Mr. and Mrs. Wm. Young and Mr. and Mrs. Bayer comprised the delegation.

Mrs. E. A. Williams reports business very fair. What is probably the largest single decoration of the season, in a large department store, has just been completed by her.

Fred. Stokes, manager for Wm. F. Kasting & Co., says he is well pleased with the success they have met with in Pittsburg.

Loew & Roehrig have opened for the holiday season at 5 Union street.

M. I. O'Brien, Sharon, Pa., and Dumont & Co., Philadelphia, were visitors this week. REGIA.

PITTSFIELD, MASS.—J. G. McArthur, formerly secretary of the Gardeners' and Florists' Club and now superintendent of the Pittsfield Cemetery, is the republican candidate for councilman in Ward 1.

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Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

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Wagon Heaters

Will keep your delivery wagons at a temperature that will prevent your plants and flowers freezing in the coldest weather. Positively no smoke, no smell, no gas, no danger. Cost of opering less than one cent per hour. Thoroughly reliable, inexpensive and durable.

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That we are HEADQUARTERS FOR WESTERN PENNA. It will pay you to write for our Christmas Price List Cut Flowers.

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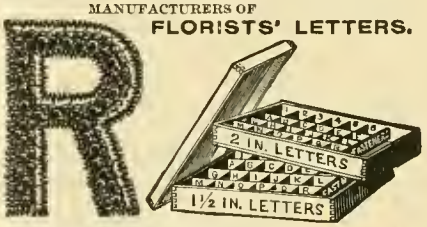
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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, $2.00. Script Letters, $4. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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The autumn opening of James Morton's Sons and the flower show of W. L. Rock at their spacious store, 1024 Main street was the event of the year. As a chrysanthemum show for variety and size of display it rivaled many club shows. A souvenir invitation was mailed liberally and generously responded to, for, in spite of three as disagreeable days as could be, fully 3000 people attended. The store was decorated with wild smilax and Asparagus plumosus. Large palms where plentifully used. An elegant luncheon table formed the center and was done in Bridesmaid roses and adiantum, the appointments being in keeping. The buffet tables were decorated with fruits, flowers and autumn leaves. The display of chrysanthemums included thirty leading varieties. Of carnations there were sixteen of the best sorts and the display of roses would have been hard to beat. Beauties, with stems five feet long were shown, with some extra select stock in Madame Testout, Kaiserin, Perle, Bride, Bridesmaid and Meteor. There was also a special display of bronze and green galax and magnolia wreaths, specimen palms, Boston ferns, Asparagus Sprengerii, pot chrysanthemums and ferneries. In connection with the display a refreshment called ambrosia was served. The show was largely a home product display, as the greenhouses of local florists furnished the greater part of the exhibits, the bulk of the chrysanthemums coming from the Merriam greenhouses of Chas. Heite, who also grew many of the carnations. W. J. Barnes furnished the large palms. Mr. Rock reports that a largely increased retail flower trade has resulted from his liberality to the public in the way of a free show. B.

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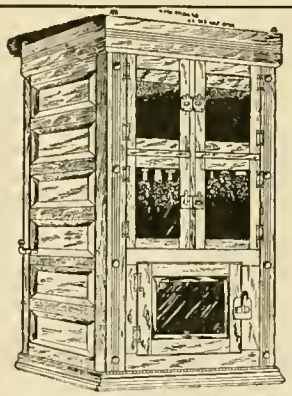
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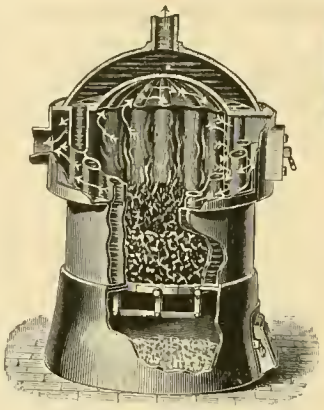
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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fifteenth annual meeting will be held at Detroit, Mich., August, 1899.

OFFICERS-ELECT [to be installed Jan. 1, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president: secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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HENRY ECKFORD, the famous English florist, has about thirty acres of land and nine-tenths of it is devoted to his specialty, peas that are beautiful to look upon or good for food.

Cannas in 1898.

We have been trying ten acres of these plants in something over 100 varieties, and give below a rough summary of the notes made through the season on most of the newer, as well as older kinds tried here. The general improvement made in the French Crozy type of canna the past few years must account for the fact that each succeeding year now shows few marked advances over former kinds, at least that is the way I look at it. Of course every new canna is criticised more closely than ever and even its best friends are slow to duplicate colors or forms and many novelties are thus rejected in favor of older kinds. We realize here, as in other large commercial places, the need of discarding all inferior kinds, the present list being cumbersome, and we have given special study this summer with this object in view.

ITALIA OR ORCHID-FLOWERING SORTS.

Alemannia.—Six feet. Green foliage, strong, robust grower, very fine flowering habit; flowers large and of a little better substance than any other of this class; color orange-scarlet, mottled and bordered yellow. This is unquestionably the best of the Italia type.

America.—Four feet. Dark bronze leaf streaked with green; late bloomer; flowers of fair substance, of a brilliant red. Desirable in this class on account of the foliage.

Aphrodite.—Five feet. Green foliage, strong grower, shy bloomer; poor substance, color deep salmon-orange, bordered yellow, having a washed-out appearance.

Atalanta.—Three feet. Narrow leaves of a grayish green with dark edge; flowers orange-scarlet, of good size but poor substance, and late coming into flower. Parthenope is better.

Austria.—Five feet. Green foliage, strong, robust grower, coming into flower late; clear yellow flowers of large size, but very little substance. Will discard it in favor of Burbank.

Burbank.—Five feet. Green foliage, strong, clean grower; flowers of largest size; color rich canary yellow with crimson spots in the throat; of fair substance; forms well developed trusses. The best of this color.

Burgundia.—Four feet. Green foliage; of same style as Alemannia but much inferior. Will grow Alemannia in place of this.

H. Wendland.—Five feet. Green foliage. This I think will prove an improvement on Italia; has large flowers, of better substance and richer in color; not as free flowering as Italia.

Iberia.—An inferior Italia; will discard it in favor of the latter.

Italia.—Still one of the best of its class; free flowering habit, strong grower, large orange-scarlet flowers with rather poor substance; makes a grand show when massed; will continue to be the leader in this color.

Parthenope.—Five to six feet. Green foliage. This was very showy with us this summer on account of its exceedingly large, bright, reddish-salmon flowers of fair substance; early and free flowering.

CROZY TYPE.

Alphonse Bouvier.—Five feet. Green foliage; still one of the best tall growing crimsons and will be a standard for some years to come; its drooping flower-spikes are not without grace.

Alsace.—Four feet. Small, creamy white flowers; free blooming habit; looks well in a large bed.

Aurora.—Five feet. Green foliage; large, well rounded flowers, of a clear orange-salmon; very free and early to flower. Monsieur Francois Gos I think an improvement.

Baronne de Poilly.—Four feet. Green foliage; poor, ragged grower; flowers large size, of a pinkish salmon; very poor substance; not wanted.

Bassett's Red.—Five feet. Similar to Black Beauty; leaves not quite as dark; being a taller grower there is a place for it.

Beaute Poitevine.—Four feet. Green foliage; this is one of the brightest crimsons we have; flowers are of medium size but numerous; an early and continuous bloomer; in a large bed it is hard to beat.

Black Beauty.—Four feet. The flowers are of no value, but its dark bronze, almost black, leaves are the most striking of this class.

Bronze Beauty.—Five feet. Bronze foliage; large flowers of deep vermillion. We find Inglewood better and will substitute it.

Champion.—Four feet. Green foliage; extra large flowers of bright scarlet; poor substance, late to come in flower; no place for it; Menelek is better.

Chas. Henderson.—Three and one-half feet. Green foliage; although coming into flower rather late, it is a good deep red.

Chas. Paul.—Five feet. Bronze foliage; orange-colored flowers of medium size; heads too compact; will discard in favor of J. D. Cabos.

Chicago.—Four and one half feet. Green foliage; this canna I place at the head as the best in its color, a bright vermilion scarlet; flowers are of good size, forming large trusses. A good habit of this canna is its shedding of dead flow-

ers; they drop off as soon as faded, leaving the flower stalks always clean and tidy.

Columbia.—Four feet. Green foliage; well formed flowers of bright vermilion; a poor grower and keeper; will discard it in favor of Chicago.

Comte de Bouchard.—Five feet. Green foliage; flowers yellow spotted carmine. No reason to prefer it to Florence Vaughan.

Comtesse de Sartoux Thorene.—This is rather a long name for a dwarf canna. Practically a dwarf Florence Vaughan, being identical with it in every respect except in height, which is only two and one-half to three feet; an early and continuous bloomer, sure to become popular.

Cuba Libre.—Three feet. Green foliage; like Madam Crozy but deeper shade of crimson. An improvement.

Defender.—Four feet. Green foliage; strong grower, producing small trusses of medium sized flowers; color, yellow striped crimson; of little value. A disappointment.

Depute Jonnart.—Three and one-half feet. Green foliage; poor, weak grower of no special value; medium sized flowers of deep scarlet; no place for it with Beaute Poitevine.

Duchess of Marlborough.—Four feet. Green foliage; flower long and narrow, almost a pure pink; has very little substance, forming loose, ragged heads; consider it of little value and not as good as Mlle. Berat.

Duke of Marlborough.—Four and one-half to five feet. Green foliage; we can find but little difference between this and Philadelphia, except that it is a shade darker in color, hardly noticeable, unless placed side by side. It cannot supersede Philadelphia.

Egandale.—Five feet. This I consider the king of all the bronze leaf cannas. Very free flowering, always in bloom, in all kinds of weather. The cherry-red flowers can be seen in twilight to better advantage than those of any other canna. Its only fault is its rather compact heads, which help to retain the dead flowers.

Eldorado.—Four and one-half feet. Green foliage; still the leader in its class and will be hard to displace; large flowers of a clear yellow, faintly spotted with red; fine grower, and an early and continuous bloomer.

Emma.—Four feet. Green foliage; greatly inferior to Cuba Libre, which it resembles.

Etendard.—Five feet. Green foliage; strong, even grower, forming large mass of trusses of orange-scarlet flowers. One of the best bloomers.

Explorateur Cramphel. — Five feet. Green foliage; deep crimson flowers, late bloomer; will discard it in favor of Philadelphia.

Feu d' Artifice.— New.— Three feet. Green foliage; poor, weak grower; an inferior Queen Charlotte.

Flamingo.—Three feet. Green foliage; this has an ideal flower of great substance and color, but it will have to go; on account of its poor growing qualities. Triumph is better.

Florence Vaughan.—Five feet. Green foliage; this I consider the best of all the spotted yellows; stands all kinds of weather.

F. R. Pierson.—Four feet. Green foliage; fine rich crimson, but comes into flower too late to be of any value.

Furst Bismarck.— Four feet. Green foliage; very free flowering habit; medium sized flowers of a deep, rich crimson. Will grow Philadelphia in place of it.

Geo. W. Childs.—Three feet. Green foliage; of uneven growth; small flowers of Madam Crozy type and not as good as that standard sort.

Golden Fleece.—Four feet. Green foliage; another inferior yellow of poor growth and no value.

Gold Pearl.—Three feet. Green foliage; a poor weak growing yellow; Yellow Crozy far better.

Goliath.—Three feet. Green foliage; from its name one would expect a giant canna, but I have found it a weak, dwarf grower and shy bloomer. Flowers rather long and narrow, of a deep crimson, similar to Philadelphia.

Gruss on Hamburg.—Four feet. Green foliage; a poor, uneven grower; color orange-scarlet; flowers large but very poor in substance and of no value.

Incendie.—Three and one-half feet. Green foliage; this has proved a good bloomer with us this summer; although not as strong a grower as some, it will stand closer planting; flowers are of medium size; color salmon-pink with band of yellow. Will give it further trial.

Inglewood.—Five feet. Dark, bronze foliage; flowers of largest size, clear vermillion; a free bloomer, and in all one of the best in this class.

J. C. Vaughan.—Four feet. Bronze foliage; will discard in favor of Inglewood, which it resembles.

J. D. Cabos.—Five feet. Bronze foliage; still good on account of its deep orange colored flowers.

J. D. Eisele.—Four feet. Green foliage; well rounded, medium sized flowers of a vermilion scarlet; not as good as Chicago.

John White.—Three feet. This is supposed to be a variegated leaf, which it has when grown inside; outside it loses its variegation; of no value whatever.

J. W. Elliott —Four and one-half feet. Green foliage; large flowers of bright vermilion, not as good as President Cleveland.

Klondike.—Four and one-half feet. Green foliage; this I find of rank, uneven growth, shy bloomer, especially in dry weather, color pure orange; in this class I prefer M. Francois Gos.

Leonard Vaughan.—Five feet. Dark bronze foliage; this I think is the best dark leaved canna having bright scarlet flowers; these are of largest size; an early and prolific bloomer.

Leon Pepin Lehalleur. — Four feet. Green foliage; of medium growth, large, five petaled flowers, of a washed out pinkish shade; foliage inclined to cover the flower spikes; no place for it.

Maiden's Blush.—Four and one-half feet. Green foliage; medium sized flowers, of a clear, Daybreak carnation pink; fades somewhat in the sun, but massed together makes a pretty effect; has a place on account of its color.

Manda's Ideal.—Three feet. Green foliage; weak grower, with narrow leaves; shy bloomer, medium sized flowers of bright scarlet.

Menelek.—Four feet. Green foliage; this canna I think hard to beat; flowers are of immense size and of a rich nasturtium red A very satisfactory variety.

Midway.—Four and one half feet. Green foliage; extra large flowers, but not as good as Chicago, which it resembles.

Mlle. Berat.—Five feet. Green foliage; a strong grower, flower deep pink, a shade deeper than Duchess of Marlborough and far better. Petals are rather long and narrow; large, loosely formed flower spikes.

Mme. Baronne P. Thenard.—Three and one-half feet. Green foliage; of uneven growth, compact flower heads holding the dead flowers badly; flowers are large and rounding; color orange, shading to salmon-pink.

Mme. Crozy.—Four feet. Green foliage; still one of the best and can be seen at any and all times in full bloom.

Mme. Leon LeClerc.—Five feet. Green foliage; extra strong grower, throwing up an abundance of flower stalks and when massed, makes a grand show; medium sized flowers of a bright orange-scarlet, with wide border of yellow.

M. Mesnier.—Four feet. Green foliage; still has a place, as I know of no other of the same color, salmon dotted and streaked with red, bordered with a narrow rim of yellow; large flowers and a free bloomer.

M. Francois Gos.—Three and one-half feet. Green foliage; strong, even grower. This I consider the best of its color which is a pure orange; petals are large and rounding and of good substance.



FIELD OF CANNAS AT VAUGHAN'S ESTABLISHMENT, WESTERN SPRINGS, ILL.



CONSTRUCTING A BOULDER GATEWAY AT SWAN POINT CEMETERY, PROVIDENCE, R. I.

Mont D'Or.—Three feet. Green foliage; poor grower, throwing up weak flower stalks covered sparingly with flowers of a bright yellow, which fade badly.

Mrs. Fairman Rogers.—Three and one-half feet. Green foliage; this I find almost identical with Mme. Crozy and can see no improvement.

Paul Bruant.—Four and one-half feet. Green foliage; large flowers, orange shaded red; it will have to take a back seat as there are many others better.

Paul Marquant.—Four and one-half feet. Green foliage; has had its day and will have to go; many other salmon shades better.

Paola Radaelle.—Three feet. Green foliage; a dazzling crimson, yellow edge, weak grower and shy bloomer; many better ones.

Papa.—Four feet. Green foliage; in this class I prefer Pres. Cleveland, which is better.

Philadelphia.—Four feet. Green foliage; of even growth; this is without doubt the best deep crimson canna we have; produces immense quantities of bloom the summer through; sheds its faded flowers and always looks fresh and bright.

Pierson's Premier, (Little Billie).—Three feet. Green foliage; one of the best dwarfs, a prolific bloomer; in color it is on the line of Queen Charlotte, but the scarlet is more intense.

Pillar of Fire.—Six to seven feet. Green foliage; similar to A. Bouvier, and shall discard it.

P. J. Berckmans;—Five feet. Green foliage; this we shall discard in favor of Mlle. Berat.

Pres. Cleveland.—Four and one-half feet. Green foliage; this I consider one of the best of recent introductions; very fine flowering habit and extra strong grower; large, compact flower heads; in dry weather it is inclined to hold its faded flowers and needs cleaning; petals are of largest size; color pure orange scarlet.

Pres. Max Michelli.—Four feet. Bronze foliage; a poor grower; leaves curl badly; late, shy bloomer, color dull red; Leonard Vaughan is better.

Pres. McKinley.—Three and one-half feet. Green foliage; came into bloom rather late with us; the style of Philadelphia and I can see no improvement.

Princess Helen de Montenegro.—Four feet. Green foliage; strong grower, shy bloomer; extra large flowers but of poor substance; color orange salmon with crimson lines; fades badly.

Queen Charlotte.—Four feet. Green foliage; a good, free flowering all round sort and will be in demand for some time to come; however, I prefer Souv. de Antoine Crozy, a more striking color.

Robert Christie.—Five to five and one-half feet. Green foliage; after the style of Chicago which it closely resembles but is not so good.

Robert Owen.—Four feet. Green foliage; color clear yellow; does not do well with us; prefer Yellow Crozy.

Roi des Rouges.—Four feet. Green foliage; a good canna, producing large flower trusses (inclined to droop) of a bright, almost dazzling crimson.

R. Pearson.—Four feet. Green foliage; color yellow, heavily dotted and splashed crimson; petals stand up stiff and do not show off to advantage. Vice-President David is of the same type but better.

Secretaire Chabanne.—Four feet. Green foliage; this has been grand with us this summer; a strong grower, early bloomer; flowers are extra large of a beautiful orange, shaded salmon. A decided improvement in the Marquant type.

Semaphore.—Five and one-half feet. Dark bronze foliage; extra strong growth and free to bloom; medium sized flowers of a light orange; very striking and shows off well at a distance.

Sophie Buchner.—Five feet. Green foliage; very large flowers, color deep vermilion, late coming into bloom; will discard it in favor of Chicago.

Souv. d' Antoine Crozy.—Four feet. Green foliage; a most distinct and striking flower; rich, crimson scarlet with wide gold border; an early and continuous bloomer; an improvement over Queen Charlotte.

Souv. de Mme. Crozy.—Five feet. Green foliage; strong, robust grower, throwing up immense flower stalks, always in bloom; large red flowers with broad border and large center of a bright yellow; the best of its kind.

Stella Kanst.—Five feet. Green foliage; one of the freest flowering cannas we have; produces medium sized flowers in great profusion and looks well when massed in large bed; color rich apricot.

The Burlington.—Five feet. Green foliage; strong grower, early to flower; cleans itself of all decayed flowers, never having that dried up appearance which so many of our good cannas have at

times, color is a clear orange scarlet.

Topaz.—Three feet. Green foliage; a good, clear, bright yellow; medium sized flowers, rather showy when in bloom; fades badly in the sun; a weak grower.

Triumph.—Three and one-half feet. Green foliage; this I think is one of the best dwarf bright reds of the Flamingo type that we have; a most vigorous grower, with large flowers and trusses and a constant bloomer; will give satisfaction.

Vice-President David.—Four feet. Green foliage; of strong, even growth; extra large, well rounding flowers, which open up full showing off to great advantage; trusses are of large size and not too compact; color yellow mottled heavily with crimson. This I consider best of the deep colored Florence Vaughan type.

Vice-President Luizet.—Three and one-half feet. Color bright red; flower heads are rather too compact; will discard it in favor of Triumph.

Villa de Poitiers.—Four feet. Green foliage; is of medium growth; flowers very striking color, deep orange-yellow, lower petals splashed crimson; petals stand up stiff which detracts from its beauty; very free to bloom; a new one with us which may improve on further trial.

Yellow Crozy.—Three and one-half feet. Green foliage; the strongest and most free flowering clear yellow canna we have; flowers are large and of good substance; it bleaches less in the full sun than any other yellow I know of. The flower heads are too compact and need cleaning.

My selection of sorts to grow, if restricted to a few varieties, would be the following: In orchid-flowering—Alemannia, Burbank, Italia. In Crozy types—Beaute Poitevine, Chicago, Comtesse de Sartoux Thorene, Egandale, Eldorado, Florence Vaughan, Inglewood, Leonard Vaughan, Madam Crozy, Menelek, Mlle. Berat, Monsieur Francois Gos, Philadelphia, Pierson's Premier, President Cleveland, Secretaire Chabanne, Souv. de Antoine Crozy, Triumph, Vice-President David, Yellow Crozy.

Western Springs, Ill. JAS. S. WILSON.

Swan Point Cemetery.

Swan Point Cemetery, at Providence, R. I., has for its superintendent a man who never copies the work of another. Bright, resourceful and courageous, he tackles a problem in his own way and solves it with a master hand. Under the management of Timothy McCarthy this beautiful resting-place of the dead has come to be known throughout this country and abroad as a masterpiece of sylvan adornment, and the unpretentious but earnest man who created it is recognized as standing at the head of his profession in America.

The exigencies of cemetery planning leave little scope for broad landscape effect. In addion to the many peculiar limitations common to all cemetery work, Swan Point presents a formidable problem in that it is located on a bed of glacial drift containing a large proportion of massive boulders, every one of which must be removed and the ground turned over to a depth of six or seven feet before it can be made use of for burial purposes. How to dispose of this material to best advantage has been an ever-present question as the cemetery extended its area. Superintendent McCarthy has solved it in his usual practical manner by using the stones in the construction of grottos and in building a boundary wall which is unique in its way.

One of our illustrations shows the older part of this boundary wall where a grand effect has been produced by the planting of masses of evergreen and deciduous shrubbery and creepers against its buttressed sides. The boulders are piled up in an irregular and seemingly random fashion, but the foundations are deeply laid and the back joints and beds well chinked and laid with mortar, and there is no reason to doubt its standing until the crack of doom.

The illustration of the unfinished gateway shows something of the manner and work of construction. The popular taste for some years has favored the banishment as much as possible of all cut stone work from the modern cemetery and Mr. McCarthy has determined that lot proprietors shall have an impressive example in this direction in the new entrances now being constructed and in which nothing but the natural boulders will be used. The effect at first is rather startling to one accustomed to associate cut stone masonry with cemetery entrances, yet commencing at the corner and approaching the entrance a certain harmony is apparent which will be all the more effectively marked when the now rugged lines of the rough boulder construction are softened by a luxuriant growth of vines and shrubbery. Several of the largest rocks used in this gateway weigh from twenty to thirty tons each.

Some Holiday Logic.

The season of depression through which the flower business has been passing makes it all the more necessary that the florist, be he grower, retail or wholesale dealer, should turn the approaching holiday trade to the best possible account. We occasionally hear it remarked that because of high prices, extra help and other drawbacks, all a retail florist may reasonably expect to do at Christmas is to serve his customers as well as he can under the circumstances and keep their friendship and that actual profits on the business as done at the holidays are very meagre. This is a poor standard for one to set up. We should do better and with the exercise of good judgment and foresight there is no good reason why a florist with a proper knowledge of his business should not make a holiday profit



A BOULDER WALL AT SWAN POINT CEMETERY, PROVIDENCE, R. I.

that will go a long way toward liquidating the shrinkage of the late unprofitable weeks that have been disturbing his waking and his sleeping hours.

We can never predict just what is going to happen at Christmas. The uncertainties of the weather, the caprices of customers and other contingencies make it impossible to figure reliably in advance and in more than one item we are pretty sure to realize within the next fortnight that "hindsight is better than foresight." But experience counts for something and is will be wise to revert to our experiences of the past and try to base our course this year to a considerable extent on what they show. Each individual has his own special record to draw upon but there are a few points of general application that may be presented just now with possibly good results.

The rapid increase in the holiday plant trade as compared with the sales of cut flowers demands our attention. Whatever may have been the cause, the fact is very evident and the florist who neglects to provide himself accordingly makes a mistake. The exclusive cut flower grower will, if wise, waste no time in complaining about the misfortunes that may have overtaken his industry but will see to it that no mistakes of judgment on his part will contribute to further misfortune or encourage increasing discrimination against his special product. He will, before doubling up the price of his flowers, first assure himself that there is a present actual demand for more than can be provided; he will not forget the oft repeated admonitions against the storing away of cut flowers in anticipation of extra holiday values, the most expensive delusion under which his craft has ever suffered; if packing for a wholesale market where an established system of grading exists he will understand that mixing or marking up his stock into grades in which they do not belong, in hopes that in the rush they may slip through, is folly that simply tries tempers, kindles resentment and reacts upon the flower growers in general and himself in particular. The mixing of rubbish among high grade stock does not raise the grade of the rubbish a single point, but it does degrade the quality of the good stock every time.

It has been the rule for many years that bright colored flowers enjoyed the largest demand at the holidays. So pronounced has the preference become of late that in the large centers the accumulation of white roses and carnations, Roman hyacinths, paper white narcissus and the like, at Christmas, has been actually pitiable while for scarlet carnations, high grade American Beauty and Meteor roses and poinsettias it has been impossible to supply a fraction of the demand. So many outdoor "greens" come to market at Christmas and so popular are they at this season that the use of the ordinary green stock of the florist, such as smilax, adiantum and geranium foliage is quite restricted and he who cuts off an unusual quantity of such material when not explicitly ordered makes a mistake for which there is no excuse. Barrels and barrels of smilax went to loss in New York last Christmas that might have been marketed, gradually, at a fair figure.

The record of flower sales in the wholesale markets of late years, at the holidays as well as on ordinary days, shows that the disposition of the buyer to discriminate as to quality has increased in proportion equal to the increased supply. Last Christmas it was particularly noted that as soon as the supply of first-class specimens of any coveted variety was exhausted sales on that line were at an end.

As to plants, the same fondness for color prevails at the holidays as is the case with cut flowers. The addition of a scarlet bow and a spray or two of holly will help the sale of a white azalea or primrose, but for quick sales take the Simon Mardner azalea, the deep pink primrose or cyclamen, the poinsettia and the bright fruiting solanums and ardisias and oranges. The white flowering plants have their place in basket and jardiniere arrangements, in the making of which the New York florists excel and of which the sales elsewhere might be augmented to enormous proportions if our florists in the smaller towns could be brought to realize the possibilities of this line. Baskets and pot covers of celluloid in many artistic forms and combinations, also jardinieres and fern dishes at prices to suit all pockets, are offered by our supply dealers and it is possible to work off in them stock which of itself would find a market with difficulty.

The big trade in holiday plants which has been developed in the large cities within the past few years is due in large measure to the well-directed efforts of our plant growers. They have aimed to produce goods not only attractive to the eye but of such quality as to ensure satisfaction after they have been delivered to the buyer. Good sturdy varieties that will retain their freshness and beauty in the unfavorable surroundings of the average dwelling house for a reasonable length of time, grown cool and presented in attractive form at fair prices are the best advertising medium in the world for the retail florist.



CHRYSANTHEMUM XENO.

Chrysanthemum Xeno.

This is one of the new varieties introduced by Nathan Smith & Son, Adrian, Mich. Xeno is pink in color and was certificated at Chicago, Cincinnati and Philadelphia November 26. Messrs. Smith & Son inform us that their new variety exhibited at Chicago under the name of Izanga has been renamed Zoraida.

MONTPELIER, VT.—The boiler in Jacobson's new house blew up during the cold spell last week.

LATROBE, PA.—W. G. Young has opened a well equipped flower and seed store in Young's block.

GERMANTOWN, PA.—The Germantown Horticultural Society has elected the following officers: President, Edward Neville; vice-presidents, Charles J. Wister, Albert Woltemate and Robert Le Bontillier; secretary and treasurer, George Redles, Jr.

REVIEW OF THE WORK OF THE CHRYSANTHEMUM SOCIETY OF AMERICA FOR 1898.

NAME.	Where Shown.	Date.	Exhibited by	Color.	Type.	POINTS SCORED. Scale.	Color.	Form.	Fullness.	Stem.	Petalage.	Size.	Distinct.	Foliage.	Total.	REMARKS.
Willowbrook	Phila.	Oct. 15	Wm. Paul Binder, Rider, Md.	White, slightly tinged lemon	Jap.	C	21	21	13	8	8	14			85	
						E	12	12	8	8		14	20	7	81	
Harry A. Parr	Chic'go	" 22	" "	Yellow	"	C	21	21	14	8	5	10			79	
" "	Phila.	" 22	" "	Delicate yellow	Ref. Jap	C	23	23	15	9	9	13			92	
" "		" 22	" "	"	" "	E	14	14	9	9		13	23	8	90	
" "	Boston	" 22	" "	Light yellow	Jap.	C	20	18	14	10	7	10			79	
" "	N. Y.	" 22	" "	Yellow	"	C	18	18	15	10	7	10			78	
" "	Cinci'ti	" 29	" "	Lemon yellow	"	C	20	20	15	9	7	10			81	
Lady Harriett	Phila.	" 22	" "	Pink	Inc. Jap.	C	22	23	10	9	9	13			86	
" "		" 22	" "	"	" "	E	13	14	7	9		14	21	7	85	
Robt. Halliday	"	" 29	" "	Yellow	Jap. sl'ly Inc.	C	22	21	15	8	8	15			89	
" "	"	" 29	" "	"		E	13	13	10	8		15	20	8	87	
Adele	"	" 22	Ed. A. Seidewitz, Annapolis, Md.	Delicate pink	Inc. Jap.	C	23	23	15	9	9	14			93	
"	"	" 22	" "	"	" "	E	14	14	10	9		14	24	9	94	
Swern	"	" 29	" "	Pink	" "	C	21	22	13	8	8	11			83	
John K. Shaw	"	" 29	" "	"	Jap. Inc.	C	23	24	15	10	9	11			92	
" "	"	" 29	" "	"	" "	E	13	14	9	10		11	20	9	86	
Soliel d'Octobre	"	" 22	John N. May, Summit, N. J.	Clear yellow	Jap. Ref.	C	23	24	13	9	9	14			92	European.
" "	"	" 22	" "	"	" "	E	14	14	9	9		15	24	9	94	(See footnote.)
No. 29	"	" 29	" "	Pink	" "	C	18	18	15	10	7	11			79	
Meta	"	" 29	" "	White, lemon sh'd'g	Jap. Inc.	C	22	22	13	10	8	15			90	
"	"	" 29	" "	"	" "	E	13	13	8	10		15	20	8	87	
"	Boston	" 29	" "	Lt. straw yellow	" "	C	20	22	13	10	9	13			87	
"	"	" 30	" "	"	" "	E	13	12	8	10		10	23	10	86	
"	Chic'go	Nov. 5	" "	White	" "	C	23	23	13	7	8	12			86	
Yellow Mayflower	Phila.	" 5	" "	Light yellow	Jap.	C	21	22	14	10	8	13			88	Sport from Mayflower. See footnote.
" "	"	" 5	" "	"	"	E	12	13	10	9		13	23	8	88	
" "	Chic'go	" 5	" "	"	Jap. Ref.	C	20	23	13	9	7	12			84	Arrived in poor condition.
" "	Boston	" 12	" "	Primrose yellow	Jap.	E	15	12	10	7		15	25	5	89	
Mavourneen	Phila.	" 5	" "	D'lic'te salm'n pink	"	C	21	22	14	8	8	12			85	
"	"	" 5	" "	"	"	E	12	13	9	8		12	21	8	83	
"	Chic'go	" 12	" "	Pink	Jap. Ref.	C	20	22	14	8	8	12			84	
Mrs. Trainor L. Park	"	" 5	" "	Yellow	Jap. Inc.	C	24	21	12	10	9	13			89	
" "	Phila.	" 5	" "	"	" "	C	23	23	15	8	8	14			91	
" "	"	" 5	" "	"	" "	E	14	14	10	8		14	22	8	90	
Mrs. N. Molyneaux	"	" 5	" "	White	Jap.	C	23	23	15	7	8	14			90	European.
Silver Wedding	Chic'go	" 11	" "	"	Jap. Ref.	C	22	20	12	8	9	12			83	
" "	Boston	" 12	" "	"	Ref.	C	25	23	12	7	10	13			90	
" "	"	" 12	" "	"	"	E	15	15	7	8		12	25	7	86	
Adula	Phila.	" 19	" "	Creamy white	Inc. Jap.	C	22	20	15	9	8	12			86	
"	Chic'go	" 19	" "	White	" "	C	23	24	14	9	9	13			92	
"	Boston	" 19	" "	" sl't cr'm tinge	" "	C	22	20	15	6	2	12			77	
"	"	" 19	" "	"	" "	E	13	12	11	8		10	20	6	79	
"	Cinci'ti	" 26	" "	White	" "	C	21	20	15	8	8	13			85	
Pride	Chic'go	Oct. 29	G. P. Rawson, Elmira, N. Y.	"	Jap. Ref.	C	23	20	11	8	7	12			81	
"	Boston	" 29	" "	"	Ref.	C	25	20	15	7	7	12			86	
Eclipse '98	"	Nov. 26	" "	Light yellow	Jap. Inc.	C	25	23	15	9	7	15			94	Sport from W. H. Chadwick.
"	"	" 26	" "	"	" "	E	15	11	10	9		15	25	9	94	
Mrs. J. V. Merrick	Phila.	" 5	H. B. Surnam, Germantown, Pa.	Slaty pink	Jap.	C	18	20	13	9	9	13			82	
Polly Rose	N. Y.	Oct. 22	David Rose, Jersey City, N. J.	White	Jap. Ref.	C	25	20	12	10	8	12			87	Sport from G. of Pacific.
"	"	" 22	" "	"	" "	E	15	12	7	10		12	15	10	81	
Yellow Ivory	Chic'go	Nov. 5	Smith & Son, Cleveland, O.	Yellow	Jap. Inc.	C	23	18	12	6	8	6			73	Ivory X Sunderbruch.
G. J. Warren	N. Y.	" 5	F. R. Pierson & Co., Tarryt'n, N.Y.	Canary yellow	Jap.	C	23	15	15	5	5	15			78	European.
"		" 5	" "	"	"	E	15	15	10	5		15	20	5	85	(See footnote.)
Mlle. Lucie Faure	"	" 12	" "	White	Jap. Inc.	C	22	22	15	9	8	10			86	European.
" "	"	" 12	" "	"	" "	E	13	15	10	9		10	15	8	80	
Mrs. F. A. Constable	"	" 5	Wm. Anderson, Mamaroneck, N.Y.	Pure white	Jap.	C	21	22	15	10	8	15			91	Sport from Iora.
" "	"	" 5	" "	"	"	E	12	15	10	10		15	25	8	95	
Phenomenal	Boston	" 8	E. G. Hill & Co., Richmond, Ind.	Lt. bronze yellow, tinged pink	Jap. Inc.	E	12	15	9	10		15	18	8	87	
General Custer	Chic'go	" 12	" "	Red	Jap. Ref.	C	22	18	10	9	8	12			79	
Admiral Dewey	Phila.	" 12	C. W. Ward, Queens, L. I., N. Y.	Yellow	" "	C	22	22	15	8	8	12			87	
" "	"	" 12	" "	"	" "	E	13	13	10	8		12	22	7	85	
" "	Boston	" 12	" "	Chrome yellow	Ref.	C	25	23	15	7	8	12			90	
" "	N. Y.	" 19	" "	"	Jap. Ref.	C	24	18	12	6	6	8			74	
Rough Rider	"	" 19	" "	Pink	Jap. Inc.	C	18	18	14	5	7	14			76	
David S. Ward	"	" 19	" "	White	" "	C	24	20	13	9	8	12			86	See footnote.
" "	"	" 19	" "	"	" "	E	14	14	8	9		12	20	9	86	
Col. D. Appleton	"	" 12	Jas. R. McDonald, Riverdale, N. Y.	Yellow	" "	C	23	23	13	10	9	14			92	
" "	"	" 12	" "	"	" "	E	14	13	8	10		14	23	10	92	
No. 97	Cinci'ti	" 12	Theo. Bock, Hamilton, Ohio.	Light pink	" "	C	22	19	10	8	8	12			79	
Mrs. Bradish Johns'n	N. Y.	" 19	Geo. Gipson, East Islop, N. Y.	Pink	Jap.	C	18	18	12	9	5	8			70	
Florham	"	" 19	A. Herrington, Madison, N. J.	Yellow	Jap. Inc.	C	15	18	14	9	7	10			73	Bonnaffon sport.
Captain Gridley	Phila.	" 19	H. Tong, Erie, Pa.	W'te & y. del. blush	" "	C	20	20	15	8	9	14			86	(Outer petals inclined to
" "	Cinci'ti	" 19	" "	Bet. wh'te & blush	" "	C	16	21	11	9	8	13			78	droop.)
" "	"	" 19	" "	"	" "	E	13	13	10	9		10	17	8	80	Slight indication of pink
White Maud Dean	N. Y.	" 26	J. Lewis Childs, Floral Park, N.Y.	White	" "	C	22	22	11	9	8	13			85	some blooms. Sport from
J. M. Keller	"	Dec. 3	H. A. Molatsch, Brooklyn, N. Y.	Bright clear yellow	Jap.	C	20	22	15	8	9	13			87	Maud Dean.
Kuno	Cinci'ti	Oct. 15	N. Smith & Son, Adrian, Mich.	White	"	C	22	23	12	9	8	13			87	
No. 12-10	Chic'go	" 22	" "	"	Jap. Inc.	C	22	20	13	8	8	12			83	
No. 57-8	Phila.	" 29	" "	Light yellow	" "	C	22	22	13	6	8	13			84	
Shilowa	Chic'go	Nov. 5	" "	Crimson	Jap. Ref.	C	23	23	13	8	7	12			86	
"	Cinci'ti	" 12	" "	Red	Jap.	C	20	20	13	7	8	12			80	
No. 35-4	Chic'go	" 5	" "	Pink	Jap. Inc.	C	23	19	11	9	7	13			82	Mme. Perrin X Iora.
No. 35-6	Cinci'ti	" 5	" "	Blush pink	Jap.	C	20	20	12	8	7	14			81	
"	"	" 5	" "	"	"	E	13	13	8	7		13	19	7	80	
Zoraida (exhibited as Izanga)	Chic'go	" 11	" "	White, lemon disc	Anemone	E	14	13	9	7		14	20	8	85	
Monstrosum	Boston	" 12	" "	Amaranth pink	Jap.	E	8	10	10	8		12	20	10	78	
Idavan	Phila.	" 19	" "	Del. pink, c'my cen.	Jap. Inc.	C	20	20	15	9	8	13			85	
Nagoya	"	" 26	" "	Yellow	Jap. Ref.	C	23	22	14	8	8	12			87	
Xeno	"	" 26	" "	Purplish pink	Jap. Inc.	C	20	24	15	10	9	11			89	
"	Cinci'ti	" 26	" "	Deep pink	" "	C	19	22	15	9	8	12			85	
"	Chic'go	" 26	" "	Pink	" "	C	23	22	14	9	9	12			89	
Stelleta	"	Dec. 3	" "	Yellow	Jap. Ref.	C	25	24	13	8	9	14			93	
Superba	"	" 10	" "	Pink	Jap. Inc.	C	22	20	14	7	8	12			83	
"	Phila.	" 10	" "	Bright pink	" "	C	22	22	15	8	8	13			88	
Queen of Plumes	Boston	" 10	" "	Delicate lilac pink	" "	E	15	13	10	6		10	25	8	87	
Miss Flor. E. Deuzer	N. Y.	" 17	A. C. Zoolanek, W. Hoboken, N. J.	Pink	Hairy sec Jap.	C	20	18	14	8	8	10			78	

NOTE.—Soliel d'Octobre.—This variety was reported upon as Soliel d'Or, with October Sunshine in parenthesis. As the first name had been appropriated to a chrysanthemum, it appeared in the weekly report of October 29 as October Sunshine. It has been ascertained that it is a French importation, the right name being as here given.

G. J. Warren.—Considerable controversy has arisen over the yellow sports from Mme. Carnot. Not less than three of them are catalogued by English growers. The following extracts from English catalogues may throw some light on the subject: "Yellow Mme. Carnot, a deep canary yellow sport from the well known Mme. Carnot." (H. J. Jones' catalogue '97). "Yellow Mme. Carnot or G. J. Warren." (Norman Davis' catalogue '98). "Mrs. W. Mease, the sulphur Mme. Carnot, is thoroughly distinct from the yellow sport G. J. Warren." (H. J. Jones' catalogue '98).

David S. Ward.—The committee consider this variety identical with Mrs. Robt. McArthur, and further inquiry has established the fact.

Yellow Mayflower.—As a certificate was awarded a yellow sport from Mayflower November 1896, under name of F. A. Spaulding, it is considered advisable to withhold certificate from the last shown until their distinctiveness can be determined.

Mrs. Geo. F. Baer.—The issuing of a certificate for the variety Mrs. Geo. F. Baer, which was withheld last year to determine its identity, will have to be deferred until the several yellow sports from Mrs. J. Jones can be thoroughly tested. To add to the complications of this case there have been two more yellow sports from this parent disseminated last spring. Mrs. J. Jones has sported to yellow and yellow with bronze shadings in six localities in this country.

ELMER D. SMITH, Secretary.

CARNATIONS.

CULTURAL NOTES.

DECEMBER 24.—Last summer I described in these columns the houses of H. D. Rohrer, Lancaster, Pa., and their peculiar adaptability for the growing of carnations indoors all summer. Last week I again visited these houses to ascertain what sort of a crop this stock is giving for the holidays and it certainly is a success, principally in quality but almost equally so in quantity of bloom.

Perhaps the most noticeable contrast is a parallel planting of the same varieties in the same house, one lot having been grown indoors all summer and the other being outdoor grown stock, bought in a section where there was plenty of rain to produce good plants.

Gold Nugget was one of these, and the indoor grown stock was not only the best looking but the flowers produced were almost three times the size of those of the outdoor grown stock, the quality of the flowers being in about the same ratio the whole way through the scale of points. There were, however, but two and three blooms to a plant on the indoor-grown stock and six to eight on those from outdoors, with, as nearly as I could judge, no probability of the indoor stock catching up before the first of February and probably not then. This is the point I have always made regarding the difference between indoor-grown stock and well grown outdoor stock: If you are satisfied with from three to five blooms per plant from October 1 to February 1 you can have much better blooms from indoor-grown stock, but if you want from ten to twenty blooms you will have to grow outdoor plants.

This is my "theory" demonstrated by my own experience and rather extended personal observations. Theories sometimes have a fall and I must confess that the amount of bloom on Mr. Rohrer's Scott, Cartledge, Triumph, Flora Hill, Helen Keller, Lily Dean and Mrs. Bradt contrasted with my own crop of these varieties at the same time rather knocks the foundation away from my theory and leaves it very little to stand on.

I know that with a good season for outdoor-grown stock, instead of the worst I ever experienced, I would have had a few and possibly one-third more blooms to a plant than Mr. Rohrer has at this time, but I also know that no amount of care and culture could have made my outdoor plants produce blooms the equal of his in quality, and when it is possible to get as good a crop as he now has for the holidays the argument is all in favor of the indoor-grown stock.

I have a house of Gold Nugget that was planted the last of August from which I have cut from six to eight blooms per plant of a quality not quite but pretty nearly as good as those produced by Mr. Rohrer's indoor-grown stock, of which, however, there were only about a dozen plants tried; possibly a house of it might give very different results. A dozen plants of Mrs. Frances Joost on trial have yet to produce their first flowers, although they have a nice setting of buds. With me the variety has been in constant bloom since October 1, is full of flowers now, and will, by January 1, have produced about twenty blooms to a plant. A dozen or more Firefly have bloomed early and freely and produced flowers that are in quality at least three times as good as those shown in Chicago last season. I believe that there were more blooms cut per plant from these indoor-grown ones than I have cut from those grown outdoors, and I know that when it comes to selling them I would give three hundred of mine for one hundred of Mr. Rohrer's and be ahead on the deal.

ALBERT M. HERR.

New York.

UNCERTAIN HOLIDAY PROSPECTS.—STORED ROSES STRONGLY IN EVIDENCE.—RETAILERS DISCRIMINATING AGAINST CUT FLOWERS IN FAVOR OF PLANTS.—MARKET GLUTTED WITH BAD HOLLY.

The uncertainty that experience has taught is to look for in the few days preceding Christmas prevails in the cut flower trade. The demand at present writing amounts to nothing and the prospects for the holiday demand are as yet only speculative. The wholesalers are perplexed. One of them on being congratulated on his amiable expression Wednesday morning replied "I may look very pleasant and placid but there's a turbulent sea inside me." The wholesalers, it may be remarked in passing are waxing poetical—the usual result of communion with nature. Some of the boxes of roses being received at present are enough to "try men's souls," their communion has been recently not with nature but damp cellar walls; the evidences are unmistakable and if these premature arrivals of the victims of the cellar habit are any indication of what may be looked for on Saturday there will be legitimate cause for unprintable language at both ends of the line. That top roses will go all right for the holidays there is no doubt, but top roses are constantly being pushed up a peg or two as the growers advance in proficiency and the top roses of five years ago are the culls of to-day.

American Beauty is quoted up to eight or ten dollars a dozen and the retailer in the retaliatory spirit which they have always on tap are pushing the ardisia and other plant favorites with their customers as substitutes for cut flowers, and with considerable success. One prominent retailer sets his plant trade at five times the value of his cut flower trade for the coming Christmas. Violets are promised in heavy quantity. Good figures are quoted in advance but it is doubtful if they can be maintained should the prospective crop materialize. Carnations are rather under the normal cut but excepting in the case of extra fancy varieties, seem to lag at the not unreasonable prices asked. Roman hyacinths and white narcissi are very abundant but are the deadest kind of stock in this market at present and it is hard to see where the growers can possibly come out whole on this class of material. Lily of the valley is a little better, but not much. Cattleyas are in brisk demand and will bring an advance of 50 per cent over regular prices.

The market is fairly swamped with miserable holly. Much of it has been cut too long and much of it never was worth cutting. This rubbish encumbers the market and makes trouble for the good stock which, however, is none too plenty and is readily bought by the knowing ones when located. Reports as to the greens business are conflicting. Localities where the cheap material abounds complain; elsewhere the trade seems to be satisfactory.

On the second Saturday in January the Gardener's Society will give a free exhibition of carnations that have not yet been disseminated. J. I. Doulan offers a special premium for the most promising variety.

Chicago.

THE HOLIDAY RUSH.—A WEEK OF BIG BUSINESS.—BAD WEATHER HAS ITS EFFECT.—FAIR SUPPLY OF STOCK.—CARNATION MATTERS.—FLOWERING PLANTS.—MANY ROOTED CUTTINGS.—COMMENT.

To begin with, it rained; and it kept on raining, but that did not deter the holiday buyers from their rush for flowers and this week, when it comes to an end, which will not be until Sunday, will probably record the largest volume of business Chicago wholesalers have ever transacted in the before-Christmas period.

Friday was the first clear day of the week and it was also the first day upon which the local retailers bought heavily. Although the consignments of that day were very heavy it was patent that there would be no break on the price of good stock and the situation seemed quite satisfactory all around.

Of course the weather had a large influence on the market in each of its phases. The rain not only caused less buying but the dark weather enforced early shipping to market as the stock was soft and could not be held. At no time from Monday to Friday was there too much stock nor was there too little. Shipping to distant points began Tuesday and has been rushing ever since. Early orders and late shipments were the rule, however, and the last days of the week were record breakers in many respects. The usual complaint has arisen that there is too little good stock and too much that is poor. Really first-class roses have been somewhat scarce ever since the bad weather came. There was a surprising quantity of late chrysanthemums on the market and a peculiar feature was the great number of Daybreak carnations.

Peter Reinberg proposes to grow but four varieties of carnations extensively next year, although he will, of course, grow a few thousand of each of the other sorts. The varieties which he has selected as the best in their classes are Triumph, Evanston, Evelina and Armazindy.

There were not many flowering plants upon the market this week, although there was an excellent demand for good stock of this character. Vaughan, McKeller & Winterson had something over 100 well flowered azaleas, twelve to fourteen inches, which wholesaled readily at $1.50 each.

Chas. W. Zaremba, of Riverside, is taking legal steps to recover from the World's Columbian Exposition Company $1000, which he says is the value of certain orchids which he exhibited and lost at the fair over five years ago.

T. D. Mosconesotes, in the Masonic Temple, decorated his holiday window with well flowered plants of azalea and cyclamen which not only made a handsome effect but attracted a ready sale.

The Reinberg brothers have already rooted over 100,000 carnation cuttings which, in earliest spring, they will plant in the field for summer blooming. They expect to more than double this number before planting out time comes.

Probably the largest C. O. D. order shipped out of Chicago this year was one to the northwest on Tuesday which carried a collection for $207.

A. W. Warren, an English gardener of excellent repute, has taken charge of R. W. Rathborn's private establishment at 5046 Woodlawn avenue.

Louis Lentze, who has been in business at Warsaw, Ind., is in Chicago.

Chas. Held, 920 North Campbell avenue, has been quite seriously ill for some time.

THE AMERICAN FLORIST

Subscription, $1.00 a year. To Europe, $2.00. Subscriptions accepted only from those in the trade.

Advertisements on all except cover pages, 10 Cents a Line, Agate, $1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

Cover space sold only on yearly contract at $1.00 per inch, net, in the case of the two front pages, regular discounts applying only to the back pages.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

IT IS ASSERTED that one acre of Roman hyacinths in France brings as much money as one hundred acres of grain in this country.

IT is the general belief that the Philadelphia meeting of the American Carnation Society, to be held February 16 and 17, will be a record breaker.

SWITZERLAND has a national chrysanthemum society which recently concluded a successful exhibition at which, it is reported, 8000 plants were displayed.

A RECENTLY elected member of the Connecticut legislature is James Hoyt, the New Canaan nurseryman, a septuagenarian who has never before held a public office.

AN executive order provides among other things that after January 1, 1899, trees, plants and moss in its natural state may be imported into Cuba free of duty.

MESSRS. PETER HENDERSON & Co. have named their new chrysanthemum Fair Harvard and awarded a prize of $25 to Misses Nellie and Jennie Finnegan, Anderson, Ind., who suggested the name.

THE National Chrysanthemum Society of England, on December 6, 7, and 8, held at the Royal Aquarium an exceptionally fine late show. In the principal prize-winning groups were Niveus, Nyanza, Golden Gate, C. B. Whitnall and Western King, the introductions of well known American growers.

American Carnation Society.

We are in receipt of the programme and prize list of the eighth annual meeting of the American Carnation Society, to be held at Philadelphia Thursday and Friday, February 16 and 17. The schedule gives a complete list of premiums together with rules and regulations governing exhibits and scale of points in judging. Copies may be had on application to Secretary Albert M. Herr, Lancaster, Pa.

Catalogues and Cut Flower Price Lists Received.

C. F. McNair & Co., Dansville, N. Y., fruit trees; Reasoner Bros., Oneco, Fla., trees and shrubs; Rowe & Noll, Newark, N. J., seeds; Henry Nungesser & Co., New York, N. Y., grass seeds; L. L. May & Co., St. Paul, Minn., cut flowers; Cincinnati Cut Flower Co., Cincinnati, Ohio, cut flowers; Bassett & Washburn, Chicago, Ill., cut flowers; Holton & Hunkel Co., Milwaukee, Wis., cut flowers; Ellis & Pollworth, Milwaukee, Wis., cut flowers; W. F. Kasting, Buffalo, N. Y., cut flowers; W. A. McFadden, Cincinnati, Ohio, cut flowers; Welch Bros., Boston, Mass., cut flowers.

Greenhouse Building.

Dover, N. H.—Chas. A. Rand, rebuilding house destroyed by fire November 27.

Philadelphia.—E. W. Clark, boiler house.

Manure for Violets.

ED. AM. FLORIST:—When unable to get cow manure for mixing with soil for violets, I would be pleased to know of the next best fertilizer to use? Could pulverized sheep manure be employed to advantage; if so, in what proportion?

M.

In growing violets the best substitute for cow manure is well-rotted stable manure. The writer has found sheep manure, such as is offered by the trade, to be of little value for violets and does not advise its use for this crop.

P. H. DORSETT.

Wholesale Price Lists.

ED. AM. FLORIST:—I read with interest in your issue for December 3 the "kick" raised by "Retailer" against the practice of mailing wholesale price lists of cut flowers on cards printed in large type, and I know from experience that in a small town with one or two young ladies and three or four young men employed in the post office that nearly one-half of a retail florist's customers know as much about the wholesale cut flower market or prices as the florist himself, and sometimes a little more, or at least in advance of him, if he don't get his mail very promptly.

P. H. THERKILDSON.

Ironton, O.

Chrysanthemums and Carnations.

ED. AM. FLORIST:—For the first time we raised our chrysanthemums in pots in the greenhouse the past season and are decidedly pleased with the results. It saves much labor and the plants do not grow so tall and leggy. I wish we could dwarf them still more. One great gain, we think, is that the plants are not so checked in growth as when grown outside. While they do get somewhat pot-bound, still they seem to bloom quite as well.

Our carnations we grow outside and for two years we have mulched them pretty heavily with stable manure containing considerable straw, which helps very much to keep the plants from suffering from drought. It also keeps down the weeds, keeps the ground from baking, saves labor and there are very few dead leaves to pick off when lifted. I know some good growers do not favor it, but for us we like it best.

Hiawatha, Kans. J. W. MARGRAVE.

Philadelphia.

JOTTINGS AMONG THE RETAILERS.—PREPARATIONS FOR CHRISTMAS.—WHAT THE DEALERS ARE SHOWING.—LESS OF THE DEPARTMENT STORE EVIL.—ANENT MR. BATTLES' REMARKS ON ICE.—COX AND HIS STOCK.—THE FARMERS INSTITUTE.—LA GRIPPE HAS HIS CLUTCHES ON THE TRADE.

Your regular correspondent, Mr. Kift, is so crowded with business this week that he is unable to write his weekly news letter, and has asked me to send a few lines. Some are born great, some achieve greatness, and some have greatness thrust upon them. You will please include me among the last and excuse any shortcomings.

From a hasty run among the flower shops I gather that there is to be a great Christmas trade. There is an air of hushed expectancy, as is natural on the eve of battle. Arms and ammunition are piled everywhere in wondrous profusion in readiness for the eventful Saturday morning, when the grand assault will take place. I watched them walk around the lines, with that subdued air which tells of tension and grim determination. Even the agressive and noisy drummer bends to the universal feeling and walks gingerly, speaking with bated breath. I feel like quoting "on Linden when the sun was low, all bloodless lay the untrodden snow," but by the time this appears in print it will be all over, and counting the spoils will be more in order than post-prandial sentiment.

White heather and tartan ribbon, beautiful orchids and ferns, seem to be the leading features at Pennock Bros. Their store is a bower of beauty, exhibiting fine taste in the arrangement of their great display of plants and flowers, and this, combined with the lavish store improvements of the past year, and their up-to-date methods, will doubtless still further enhance their great prestige as a leading store among the flower buying public.

Jos. Kift & Son make a fine feature of Parisian baskets filled with various combinations of ferns, flowering and foliage plants. This is rather a novelty to me. I do not remember having seen this done quite so tastefully before. The crepe paper pot cover seems to have had its day. Mr. Kift has skirmished for hundreds of miles for fine stock during the past week and has certainly got together a grand showing.

H. H. Battles said he was making no special effort for the Christmas trade; but from the brisk movements of his force of assistants I think this must be taken with a grain of salt. Here again I saw fine plants of the white heather, and I noticed it at other places later, which shows that this is one of the favorite plants for Easter. Mr. Battles has secured the whole stock of Mr. Lonsdale's fine pink begonia, which shows how quick he is to snap at a good thing while others are hesitating. It makes a beautiful effect in shower bouquets. Bon Silene buds were in evidence here—the only place I have seen them for some time. Who grows them? "H. H. B" evaded the question.

George Craig says the season has been excellent with him, both in plants and flowers and the outlook is for an excellent holiday business—better than ever before, if Jupiter Pluvius is kind.

Robert Crawford has a great display of fine plants and everything the flower buyer could desire for the holidays. This is one of the live stores and is beautifully fitted up. Mr. Crawford was one of the first to advertise in the daily papers and still keeps it up. Mr. Fox has joined the advertising ranks since, and he also seems to make it pay as he keeps at it regularly. None of the other stores advertise persistently—a few insertions about the holidays being all.

I hear less of the competition of the department stores among the florists this year. Perhaps they are getting used to it. But the seedsmen complain. Jardinieres and plants are not selling as freely with them this year, and they blame Wanamaker and the rest. Michell, Landreth and Dreer, all have fine holiday displays. Greens are plentiful and are selling well There seems to be no

fault to find with this branch of the business. Habermehl and Graham do the most of the big store and hotel decorations, I believe. They have been kept very busy in this line for the past week or more.

Mushrooms are more plentiful this week. Prime are bringing 50 cents per pound. English grapes and hothouse strawberries are among the choice things offered in the fruit line, and are used by some of our florists in presentation baskets of flowers, as are also fine confections occasionally.

Mr. Battles' little booklet, which I reviewed in your issue of last week, has not met with the approval of some of his competitors here. The ice-box matter is the bone of contention among most of them, although some other points are handled rather severely. Mr. Battles point, I take it, is that he has business enough to enable him to sell out every day and has little need of an ice box. This is in line with the methods of Thorley and some of the other up-to-date New York stores. At all events, it is a question whether it is wise to make the ice box too prominent a feature to one's customers. The public is quite ready to believe that flowers salted away in an ice box may not be as fresh as those just brought in from the greenhouse. The tendency of late has been to be quite lavish in ice-box fixings, a great deal of money having been spent on this item, and it may really not be the strong card supposed. Mr. Battles has set them thinking, although unintentionally, for it must not be forgotten that his talk in the booklet was addressed to his customers and not to his competitors. I fancy he is not thanking me for giving his pointers away as I did last week. Your wide awake florists, be they retailers or growers, keep pretty mum about how they do things until it is rather well known anyhow, and then they are willing enough to tell all about it.

Chas. W. Cox thinks there's about as much money in ferns as anything if a fellow knows just how to do it. He showed me a house of grand stock, in 3 inch pots less than a year from the seed, that were selling for 6 cents and asked if the man who grew cocos and sold them in 2¼-inch pots at 10 cents could show as good a profit, all things considered. Mr. Cox has done well with Beauty and teas, but says he is not in it with carnations, and will let some one else grow them hereafter, which is not good talk—I mean about the carnations. I saw some magnificent Flora Hill on his place and such flowers cannot help but pay. I hope to live to hear a different carnation story from this hustling, intelligent and rising young grower.

Robert Craig will speak on the care and management of house plants at the farmers' institute to be held in Horticultural Hall January 17. Hardy shrubs and trees for our lawns and gardens, will be the subject discussed by Edward Campbell, of Ardmore, a landscape gardener of wide experience. Professor Fernald, Dr. Rothrock, E. H. Hess, Col. Woodward, John Gould, W. A. Selser, Geo. Abbott and other experts in flowers, gardening, forestry, etc., will also take part in the institute, which will be a symposium of the latest scientific facts in connection with agriculture, horticulture and allied subjects. An interesting exhibition of house plants, dairy utensils, etc., will be a feature of the occasion.

The angel of Grippe spread his wings on the blast and breathed on the face of about one in every five of the trade in Philadelphia and still keeps on meandering and philandering and blandering around these parts in spite of copious charms in the shape of quinine and ——. It's annoying to be short-handed at such a time as this. G. C. WATSON.

NEWS NOTES.

TRENTON, N. J.—Wm. Moore has opened a store at 137 North Broad street.

CHAMPAIGN, ILL.—C. E. Ferdinandsen has a splendid display of geraniums.

DU BOIS, PA.—T. W. Monroe has opened a down town place of business at 206 N. Brady street.

DE KALB, ILL.—John Gustaffson has removed here from Sycamore to embark in the florist business.

PERRY, N. Y.—An incipient blaze in the greenhouse of G. O. Clark did considerable damage to stock December 14.

BLUE SPRINGS, NEB.—Peter Maw is constructing a system of water works at his Twin City Greenhouses.

PADUCAH, KY.—C. L. Brunson & Co. did the floral work for the recent elaborate Einstein-Bloom nuptials.

PROVIDENCE, R. I.—J. F. Parks & Co. have opened a down town store for the season at 142 Westminster street.

TAUNTON, MASS.—F. O. Willard has opened a city store in the Brockton and Providence street railway waiting room.

NORTH ROSE, N. Y.—Peter Salter, who recently established a greenhouse here, now has the institution in full running order.

LOWELL, MASS.—C. F. Miles, formerly with John Oliver, 326 Pawtucket street, has opened a store at 492 Merrimac street.

DALLAS, TEXAS.—Fire at 1:45 a. m. December 1 did considerable damage in the establishment of the Dallas Floral Company.

CROMWELL, CONN.—A. N Pierson has offered the handsome residence on Main street, formerly occupied by himself, to a charitable organization for an orphan's home.

ITHACA, N. Y.—R. J. Shore, Jr., for some years assistant gardener at Cornell University, has accepted the position of florist at the state hospital at Binghamton, N. Y.

TOLEDO, O.—The park board has rejected all bids upon the construction of the new greenhouses, the lowest being $20,000, while the board is willing to expend but $7,500.

PORTLAND, ME.—H. T. Harmon, for ten years with Kendall & Whitney, will on January 3 open a store for the sale of seeds, agricultural implements and dairy and poultry supplies.

GRAND RAPIDS, MICH.—The committee on parks of the city council charged the committee on buildings and grounds $77.50 for the use of the plants which adorned the court house lawn last summer. The bill was paid.

AURORA, ILL.—W. L. Smith was making some repairs on his boilers when the recent cold snap came on and only saved his stock by covering all the plants in his seven houses with newspapers and then building fires on the walks. It was eleven o'clock that night before the boilers were in shape for use.

COMPARING NOTES.—"My family can't help feeling a little proud of having been carried over by the Mayflower," said the young woman who was visiting in Chicago. "Is that so!" answered the young man interestedly. "None of our folks ever went into the florist business. What brought us through was wheat." —*Washington Star.*

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By an experienced rose grower, age 30, single, for wholesale trade. Ohio or Pennsylvania preferred. ROSE, care Am. Florist.

SITUATION WANTED—As foreman by a successful rose grower and general plantsman; 20 years' experience, sober, married, age 37. References. Address D M, care American Florist, Chicago.

SITUATION WANTED—By young man of 22, with some experience in greenhouse work. Work preferred near Rochester, N. Y. Address B, P. O. Box 36, Pittsford, Monroe Co., N. Y.

SITUATION WANTED—For Jan. 1, '99 by practical florist of 15 years' experience, roses, carnations, violets and general bedding plants; sober and reliable. Can give good references. Box 13, Standish, Kans.

SITUATION WANTED—By a strictly temperate florist with excellent recommendations; good greenhouse builder, painter, glazier; 15 yrs. exp. with gen'l stock; designer. PRACTICAL, care Am. Florist.

SITUATION WANTED—By single florist, 10 years' experience in roses, cut flowers and general stock; good knowledge of floral work; strictly sober. East of Ohio preferred; at liberty Jan 10th. State wages. Address E, care American Florist.

WANTED—1899 plant, seed catalogues, wholesale, retail; also magazines. W. E BARNARD, Middletown, Del.

WANTED—Salesmen to sell flower pots as a side line on commission. CAMBRIDGE TILE M'F'G CO., Covington, Ky.

WANTED—Two handy, quick young men of good character and some experience Write, stating wages expected, etc. A. DONAGHUE, Omaha, Neb.

WANTED—Single man, well up in growing cut flowers and bedding plants; must have experience in greenhouse building and steam fitting. Must be well recommended. A steady place to the right man. Address F G. care Am. Florist.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

FOR SALE One Peter Smith (Boston) cast iron Boiler in first-class condition, also 2000 feet of glass, mainly 12x16, some 12x18 and some 12x12, and 300 feet of 4-inch pipes and fittings. A bargain. For full particulars write to

HOLTON & HUNKEL CO. P. O. BOX 103. Milwaukee, Wis.

FOR SALE.

A well established and paying florist's business, with 10 to 30 acres of land, 17,000 square feet of glass. Good residence and houses for help. Situated near one of the largest cities in California. Ill health and desire to retire from business cause for selling. For full particulars address

LOCK BOX 720, Los Angeles, Cal.

FOR SALE.

100 nice, made-up SEED BOXES OR DRAWERS holding from 10 to 14 qts. of seeds, with or without shelves; also have 50 Electrotypes for Catalogue use, as good as new, and one horse success tread power with pumping attachment for pumping water. For full particulars address

BOX 4, Station D, Milwaukee, Wis.

FOR SALE AT A BARGAIN.

Nine (9) greenhouses, about 21 000 feet of glass, well stocked with Roses and Carnations in first-class condition, also large stock of Bedding Plants; houses heated with steam, a new boiler; one heavy wagon and one spring wagon. Also 2½ acres of land, or 14 lots. In a flourishing town of 8000 inhabitants, situated in central Ohio; no competition. Part cash; the rest on first and second mortgage. Address

GREENHOUSES, care Am. Florist.

Violet Culture in Maryland.

[A paper read before the Gardeners' Club of Baltimore, Md., Nov. 28, 1898, by Thomas C. Stevenson, of Govanstown, Md.]

I have been asked to say a few words on the way I grow violets, for although I grow them only in a small way, I have thus far been very successful. In the latter part of April or first of May I plant my violets in the open ground, unprotected by any shade. I prepare the soil by making it rich with manure. Then divide the clumps, taking off all young growth that has been made during the winter, being careful not to touch any of the old wood in the center of the clump. The object in planting the violets early is to have the plants well established, and growing before the hot dry weather sets in. I plant them five to six inches apart in rows one foot apart.

When the plants throw out young leaves, I give them a light hoeing and keep it up through the summer, even in the dry weather. Some people think that working them in dry weather causes them to dry out the more, but it is a mistaken idea. Keeping soil worked up, prevents a hard crust forming and lets the dew penetrate to the roots of the plants. In the latter part of July they will begin to throw out runners, which, just as soon as they are long enough to catch hold of, pinch or clip off, being careful not to loosen the roots. I keep the runners picked off until ready to plant in sash. Don't be afraid of the violets not making growth enough. It is not the runners that make the plant, but the stools that shoot up from the center. When the plants have three or four stools and no runners by the first of September, the hardest part is over.

I then get the sash ready to receive them, using a compost one-fifth cow manure to four-fifths soil. I prepare the soil one foot deep and have it level, with six-foot sash. I allow four inches fall to the sash and let the soil come one foot from the top. When level it will be eight inches from the glass at the bottom. When this is done I put in the plants, allowing twenty-eight plants to the sash, and water well. They will not need shading. Keep them stirred and weeded and water when necessary. It is best to keep the soil moist and the foliage dry, except when syringing, which must be done early on bright days in the fall, so that they dry out before night.

I put on the sash about September 15, if frosty at night, and take it off during the day. Keep this up until the weather grows too cool. I give them plenty of air through the winter by pushing open the sash at top and bottom of frame, closing it again before the sun gets too low, so that there will be a little heat when I cover the frames with mats. Let them have warm rains during fall and spring. I use mats made from rye straw to protect my frames from cold. In violets grown this way I have experienced no disease.

ADRIAN, MICH.—A man whose description agrees with that of the indefatigable palm swindler played a similar game upon Nathan Smith & Son, December 13, but selected only $4 worth of cut flowers and growing ferns.

WHITINSVILLE, MASS.—George McWilliam has a beautiful cypripedium seedling which he has named Mlle. Gabriel Moens. It is one of three, all crosses of Spicerianum and callosum, which took a silver medal at the Massachusetts Horticultural Society's exhibition. All have borne double flower spikes.

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" Meteors	12.00@20.00
" Perles	8 00
Carnations	3 00@ 6 00
Violets	2 00
Lily of the valley	4.00@ 5 00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00
Narcissi, Roman Hyacinths	3.00@ 4.00

ST. LOUIS, Dec. 22.
HOLIDAY PRICES.

Roses, Beauties	15 00@100 00
" Brides, Bridesmaids, Meteors	8.00@18.00
" Perles	6.00@12 00
Carnations	3.00@ 6 00
Smilax	15.00
Adiantum	1.00
Asparagus	40.00@50.00
Violets, Californias	2 00
" single	.61
Roman hyacinths	4.00
Narcissus, Paper White	5 00
Callas	18 00@20.00
Valley	5.00

MILWAUKEE, Dec. 22.
HOLIDAY PRICES.

Roses, Beauties, long... per doz.	15.00@18 00
" " medium " "	6 00@ 9.00
" " short " "	3.00@ 5 00
" Brides, Bridesmaids	12 00@ 18 00
" Perles	12 00@18.00
" Meteors	12 00@18 00
" Kaiserins	12 00@18 00
Carnations, fancy	5 00@ 6 00
" good stock	3 00@ 4 00
Smilax	12.00@18 00
Adiantum	.75@ 1 00
Asparagus	75.00
Violets	2 00@ 2.50
Callas	15.00@18 00
Stevias	2.00@ 3 00
Romans, Paper Whites	3.00@ 4 00

PITTSBURG, Dec. 22.
HOLIDAY PRICES.

Roses, Beauties	15 00@100 00
" Brides, Bridesmaids	6.00@18.00
" Meteors	8.00@20.00
" Kaiserins	10 00@20.00
" Niphetos, Perles	5 00@ 8.00
Carnations, short stems	1.25@ 2 00
" long "	3 00@ 7.00
Chrysanthemums	10.00@30.00
Violets	1 50@ 3.50
Lily of the valley	4 00@ 5.00
Smilax	15 00@20 00
Adiantum	1.00@ 1 25
Asparagus	50.00@75.00

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Valley	5.00
Roman Hyacinths	3 to 4.00
Paper White Narcissus	3 to 4 00
Cypripediums	15 to 20.00
Am. Beauties	$15 to $75.00
Brides, Bridesmaids, Meteors	8 to 10.00
Perles	5 to 7.00
Carnations, ass't	2 to 3.00
Carnations, fancy	6 to 7.00
Asparagus, per string, 50c	
Smilax	12.50
Violets	1.50 to 2.00
Common Ferns, per 1000, 1.50	.20
Adiantum	75c to 1.00
Galax Leaves... $1.50 per 1000	.20
Stevia	2 00

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METEOR	per 100,	10.00 to 12.00
BRIDESMAID	"	10.00 to 12.00
BRIDE	"	10.00 to 12.00
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" " 24 inch " "	10 00
" " 20 " " "	8 00
" " 15 " " "	6 00
" " 12 " " "	4 00
" " 10 " " "	3.00
" " 8 " " "	2 00
" Brides	8.00@15.00
" Kaiserins	8.00@15.00
" Bridesmaids	8.00@15.00
" Perles	6.00@10.00
" Meteors	8.00@15.00
Carnations	3.00@ 4.00
" fancy	5.00@ 8.00
Lily of the valley	4.00@ 6.00
Adiantum	1.00
Common ferns	.20
Smilax	12.00
Asparagus	50.00@100.00
Violets	1 75@ 2.50
Romans, Paper Whites	4 00
Callas	18.00@20.00
Cattleyas per doz.,	$6 00
Cypripediums "	2.00
Harrisii "	2 50

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HOLIDAY PRICES.

Roses, Teas	12.00@15.00
" " extra	15 00@25 00
" Beauties, extra	100 00@130.00
" " firsts	75.00@100.00
" " seconds	50 00@75.00
Carnations	3.00@ 6.00
Lily of the valley	4.00@ 6 00
Asparagus plumosus	50.00
" Sprengerii per bunch .50@ .75	
Smilax	15.00@20.00
Violets, double	2.00
Narcissi, Roman Hyacinths	4 00@ 5.00

BOSTON, Dec. 21.

HOLIDAY PRICES.

Roses, Beauties, best	75.00@100.00
" " medium	.25 00@50.00
" " culls	5.00@10.00
" Meteors	6.00@30 00
" Brides, Bridesmaids	6 00@25.00
Carnations	2.00@ 8 00
Lily of the valley	3.00@ 4.00
Violets	1 00@ 2 00
Lilies	15 00@20.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00

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Roses, Beauties select	50.00@70 00
" " medium	25.00@40 00
" " culls	5 00@10 00
" Bridesmaids, Brides	4.00@ 8 00
" Meteor	6 00@35 00
Carnations	2 00@ 3 00
" fancy	4.00@ 8.00
Violets	1 50@ 2.50
Lily of the valley	3.00@ 4.00
Roman Hyacinths, Narcissi	1.00@ 2 00
Harrisii	12 00@15 00
Cattleyas	35 00@50 00
Cypripediums	6.00@10 00
Smilax	10 00@12 00
Asparagus	40.00@50 00
Adiantum	.50@ .75

BUFFALO, Dec 22.

HOLIDAY PRICES.

Roses, Beauties	10.00@50.00
" Brides, Bridesmaids	10.00@20.00
" Meteors	10.00@20.00
" Perles, Niphetos	7.00@10 00
" Kaiserins	12.00@20.00
Carnations, ordinary	1 50@ 2 50
" fancies	4.00@ 5.00
Lily of the valley	4.00@ 5 00
Smilax	12.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	1.50@ 3.00
Chrysanthemums	4.00@20.00
Romans	3.00@ 4.00

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EVERETT B. CLARK, Pres.: JOS. A. BOLOIANO, 1st Vice-Pres.: S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

VISITORS AT CHICAGO: H. A. Johns, of Sioux City, Iowa; H. M. Clair, Jr.

DROUGHT again prevails in California, and some work is stopped in consequence.

NEW YORK.—H. Nungesser & Co. shipped by one European steamer recently 2000 bags of red clover seed.

WITH the end of the current year the firm of Vanderhorst & Dames, bulb growers, of Lisse, Holland, will be dissolved, each partner continuing for himself.

JOHN A. SEVERNS, superintendent of the D. M. Ferry Seed Company, Detroit, Mich., died at his home December 22. He was forty years of age and had been connected with the D. M. Ferry Company for nineteen years. He was a son of Judge Severns, of the United States District Court at Grand Rapids, and leaves a widow.

Partnership Proved.

The civil action of S. Y. Haines, of Minneapolis, Minn., against Miss C. H. Lippincott has reached an amicable adjustment by which the entire business has been divided equally, and both parties continue business separately, Mr. Haines in the Boston Block and Miss Lippincott at the old stand, 319 Sixth street south. The parties have for some time been engaged in the seed business under the name of C. H. Lippincott, and the action was really to settle the status of the plaintiff in the partnership. The court found for plaintiff and further proceedings were discontinued by mutual agreement.

The Use of Chemical Fertilizers.

[*Abstract of remarks by Andrew H. Ward before the Boston Florists' and Gardeners' Club.*]

It has been stated for so long a time and so persistently that the only constituents that were needed to be applied to the soil to produce remunerative crops were potash, phosphoric acid and nitrogen; that the soil contained enough of the other constituents, and that no addition of them to the soil was needed; also that nitrogen was the most expensive ingredient in fertilizers, that it has come without thought to be generally believed.

Now, for those financially interested in potash salts and those fertilizer manufacturers who use them, to admit that soda can replace potash as a plant food would be suicidal in a business point of view, as it would make a revolution in the manufacture of fertilizers, as no one would use potash salts at a very much higher price than that at which he could get soda salts, and the price not controlled by any syndicate. Again, if it were admitted that soda is as good as potash for a plant food, then the soda in nitrate of soda would have a value. Reckon the soda in nitrate of soda at 5 cents a pound and its value is 7½ cents a pound as compared with the potash in sulphate of potash at 5 cents a pound, which is the value put upon it by many of the experiment stations. It stands thus:—

100 lbs. of nitrate of soda at 2½c lb. is $2.12.

It contains:

16 lbs. nitrogen at 2c lb. is .32
36 " soda " 5c " $1.80 $2.12

which shows that nitrogen in this form and valuation, instead of being the highest cost ingredient in fertilizers, is the lowest. It has been suggested by some that the cheapest way for the farmer to obtain nitrogen was to steal it from the atmosphere by raising clover or other leguminous crops; but it is evident to the practical grower that counting the cost of seeds, ploughing and other labor, it is cheaper and better to obtain it by the use of nitrate of soda, without stealing. He not only gets the nitrogen, but soda in its best form, which replaces potash in plants.

Soda, in the form of a carbonate, can be purchased in 100 pound lots in the open market at less than 2 cents a pound, and is equivalent in alkaline action to 150 pounds of muriate or sulphate of potash at 4½ and 5 cents per pound respectively, or 6.75 and 7½ cents in comparison with carbonate of soda, which costs for actual soda 2 cents per pound, and in the form of a muriate ⅝ cents per pound. It is now claimed that for many crops a fertilizer should contain 10 per cent of potash or 200 pounds in a ton of fertilizer. Usually a muriate is used at 4½c a pound, which is $9; muriate of soda, which is just as good, at ⅝c a pound, is but $1.25, a difference of $7.75 in cost per ton, when soda instead of potash is used. This is no small item in the cost of one ingredient in a ton of fertilizer, for which the grower pays so much and gets so little for it. With the reduction in the cost of nitrogen, the use of soda in place of potash will reduce the cost of fertilizers one-half, and enable the farmer to make a larger use of them by the reduced cost and thus produce abundant and more remunerative crops, rendering his land more speedily productive, or improving quickly the condition of land already much exhausted.

Nitrogen at two cents a pound will remove the day of pressure of population upon food supply and make the cost of food for plants so low that the advantage of virgin soils would be of comparatively small importance, and the ability of distant and new lands to take the market away from old soils, so far as fertility is concerned, anything but a menace. The advantage in competition, instead of being sharply theirs, would be sharply against them.

Prof. M. Maerker, Ph. D., director of the Experiment Station at Halle, Germany, says: "Furthermore, according to recent investigations by Hellriegel and Willfurth, we must assume that a certain replacement of potash by soda may take place in plants. This may be of extensive practical interest, since the crude Stassfurt potash salts containing soda would be more economical to use than the pure potash salts." Professor Norton, in his Elements Scientific Agriculture, page 17, in reference to potash and soda, says: "In fact, the two are very much alike in many of their properties, and also in the purposes which they seem to serve in plants."

Professor Wagner says in regard to the effect of soda, "There is a direct effect of it, and this direct effect of soda, that is to say, of soda entered into the plant, has proved during my investigations of such importance that further researches in that direction are of very great moment." In his opinion, "the decided preference expressed by Schultz Lupitz for kainit, as a potash, (kali) salt, is like the better yield produced by the use of nitrate of soda, as against sulphate of ammonia, attributable to the effect of the soda, which kainit as well as nitrate of soda contains, and which heretofore has not been properly valued."

The tenth volume of the Experiment Station Record, No. 1, page 34, refers to experiments on the assimilation of nitric acid as well as the action of different nitrates, by W. Schneidewind. It says: "The relative proportions of potash and soda vary to a considerable extent with the relative amounts applied to the soil.

Thus in the experiment with sodium nitrate the crop took up 4.32 grn. of potash and 9.17 grn. of sodium.

In the experiment with potassium nitrate, the crop contained 9.08 grn. of potash and 5.39 grn. of soda.

This demonstrates that the fixed alkalies, soda and potash, replace each other in plants.

Bulletin No. 22, United States Department of Agriculture reports agricultural investigations at Rothamsted, England, during a period of fifty years, in six lectures delivered under the provisions of the Lawes Agricultural Trust, by Sir John Henry Gilbert, M. A. H. D. E. R. S., etc., under the auspices of the Association of American Agricultural Colleges and Experimental Stations in November, 1898. On page 159 is given the result of wheat on plots 12 and 13 as follows:—

"On plot 12, in addition to the ammonium salts and superphosphates, sulphate of soda was applied, but the plot had received potash prior to 1852. The first twenty years after 1852 produced an average yield of 37⅞ bushels per acre, the second twenty of 27½ bushels, and the whole forty years of 30¾ bushels.

To plot 13, besides ammonium salts and superphosphates, sulphate of potash was applied each hear of the forty, and it had also received potash previously. The average annual produce was, over the first twenty of the forty years 33⅞ bushels, over the second twenty 29⅝, and over the forty years 31¾." On page 163 is stated: "Referring to the columns relating to soda, it is seen that considerably smaller amounts were found in the produce of wheat than of barley; but as in the case of barley, the quantities of soda per acre in the total crop were greater where there was a marked deficiency of potash, than where soda was actually supplied, while the smallest amounts were where the supply of potash was the greatest.

Probably the greater amount of soda taken up by the barley than by the wheat is connected with the less root range, and much shorter period of collection in the case of the spring sown crop. In both crops by far the greater proportion of soda is found in the straw, but there is more in the grain of the barley than in that of wheat, due doubtless to the palese or chaff being adherent and included with the grain in the case of the barley, but not in that of the wheat." It will be noted that the average yield of wheat for forty years was one bushel per acre more where the sulphate of potash than where the sulphate of soda was used. If this falling off in the yield which occurred in the last twenty years was for the lack of alkali, it is easily accounted for, as but 100 pounds of sulphate of soda was used annually on plot 12, while on plot 13, 200 pounds of sulphate of potash was used annually.

The different forms of fertilizers supplying nitrogen have a relative crop producing capacity, as follows: nitrate soda 100, nitrate potash 100, sulphate ammonium 90, castor pomace 74, cotton seed meal 72, dried blood 68, dried fish 66, tankage 59, stable manure 45, ground heather 23.

The Connecticut station report for 1895, says: "The average cost of nitrogenous superphosphate in Connecticut in 1894 was $32.96, average valuation 23.30, per cent difference 41.3 per cent; 1895, was $32.32, average valuation 23.37 per cent, difference 38.2.

These valuations, it must be remembered, are based on the assumption that the nitrogen, phosphoric acid and potash in each fertilizer are readily available to farm crops. Chemical examinations can show pretty conclusively whether this is true in regard to potash. There is less certainty regarding phosphoric acid, while chemical examination, as it is usually made, gives little or no clue as to the availability of the organic nitrogen in mixed goods."

Sir John B. Lawes says: "Although potash, phosphoric acid and nitrogen are the chief manure ingredients in barnyard dung, the manure ingredients in artificial foods and in artificial manures, still the difference in form in which these substances are met with, greatly affects their value. The present methods of analyzing manures does not properly recognize these distinctions, and the valuations founded upon these analyses are altogether false and erroneous."

With the admission of the unreliability of the analysis, together with the "assumed valuation" of fertilizers on which farmers are expected to pin their faith and pay their money, it is pertinent to inquire how long this state of affairs will continue to exist and when something reliable will be obtained.

How long will it be before the experiment stations will of themselves reform and give facts instead of assumptions? What measures should be taken to expedite it?

Since manures are the nourishing material of plants, and other things being equal, the highest profits of the fields depends only and alone on the greater easily extracted quantity of the same found in the soil; therefore, the more accurate knowledge of this substance, the preparation, proportional use, and how it may be procured in sufficient quantity, and with the least cost, is of the greatest importance to the farmer.

The power of fertility which exists in the silicates of soil is unlimited. An improved agriculture must depend upon the skill with which this power is brought into action.

This can be done only by the conjunction of salts, organic matter and plants. No manure, no salt, no combination of salts, gives full vigor to vegetation while nitrogen is absent.

Nitrogen not only measures but gives the value to manures.

Without controversy the saving, preparing and application of manures is one of the most important subjects that the farmer can consider. His success, commercially, depends in a large measure upon his practice or method of feeding his crops as regards to quantity, quality, and manner of applying his manures.

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GOVERNOR W. E. GATES, of Kansas, is the head of the Wichita Nursery Association.

IT is stated that southern peach orchards will be largely increased again this year.

G. G. Gleason, superintendent of Irving Rouse's nursery, is on his fifth trip to Europe.

THE Chase Nursery Co., Riverside, Cal., has been incorporated by E. A., H. B., M. A., Augusta and Mary Chase; capital $50,000.

SAN JOSE scale is said to infect 134 separate premises in Georgia. W. N. Scott, state entomologist, recommends the kerosene treatment.

THE pineapple crop of Florida is very large and profitable, the runners, of which each plant produces five or six, selling for almost as much as does the fruit.

THE Buffalo Forestry Commission has been incorporated. It is an organization of leading men whose object is to secure better care and greater uniformity of shade trees of the city.

ABRAHAM F. MARTIN, of Delphi, Ind., well known in the earlier horticultural world, died November 16, aged 88 years.

JOHN R. PARRY, Parry, N. J., who has disposed of his nursery interests, will spend the winter upon his pineapple plantation at Orlando, Fla.

PECAN growing is rapidly becoming an industry of importance in the southern states. The trees bear at seven years of age and are in full crop at ten. The yield is large and the nuts always command a good price.

Baccharis Halimifolia.

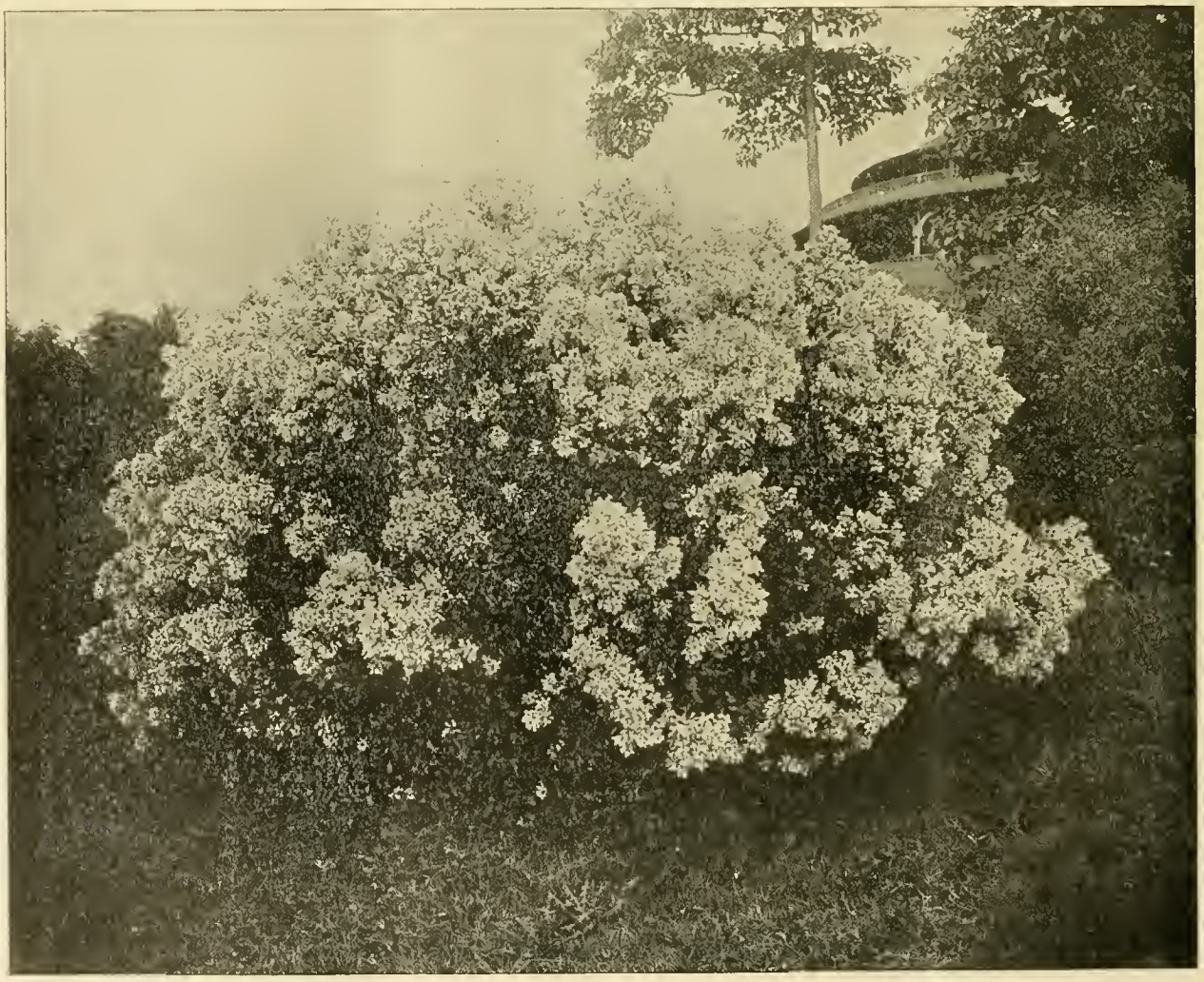
This plant stands alone in being the only northern species of a genus which is scattered over many parts of the world. It is very nearly the only representative we have, two other species only being known, one, B. angustifolia, being found in the far south, the other; B. glomeratiflora, from Virginia to Louisiana, along the coast.

Some writers have said of B. halimifolia that it has no beauty. The illustration I think belies that. It is a beautiful shrub, and especially is this true of the one which bears the fertile flowers. The shrub is diœcious, and it is not given to know which is to be the fertile plant. Flowering has to be before one can be selected. But while one is much more ornamental than the other, both are worthy of cultivation.

This shrub is known as the groundsel tree, because its leaves have some resemblance to the well known groundsel of the old world, Senecio vulgaris. In its native wilds it is found near the sea coast, but it does not mind removal to other localities inland at all, flourishing in any good soil. The flowers are white, and those of the fertile plant are borne in large, loose terminal panicles, with long slender pappus, looking like cotton. It is this large mass of what looks like cotton at a distance that gives the shrub its chief value for ornament. The display of "cotton" occurs towards the close of summer, just when nearly all shrubs are out of flower, and this alone should give it a place in all collections of shrubs.

There is an opinion prevailing that it is difficult to find summer flowering shrubs, but I think a good gardener could get together a collection in which would be several to bloom in every week in the season, one after the other. This, the groundsel tree, would have to be in it for late summer. Why so many shrubs are termed trees I do not know. There are groundsel tree, mist tree, strawberry tree and many more tree shrubs called trees in the botanies and catalogues. This particular "tree" is a shrub of from six to twelve feet high, but it is often in beautiful flowering condition when but two or three feet in height.

Unlike some other uncommon things in collections, this plant is not hard to get. It is easily obtained in its wild state, and



BACCHARIS HALIMIFOLIA IN HIGHLAND PARK, ROCHESTER, N. Y.

in many nurseries it can be had in quantities. When in flower is the time to make selection of those with fertile flowers. One of the merits of this shrub is that it holds its foliage green until quite hard freezing occurs. I have seen it as green as could be in late November, when almost every tree and shrub in sight was destitute of foliage.

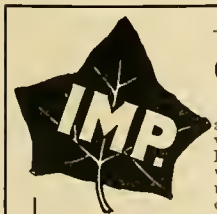
JOSEPH MEEHAN.

Western Association of Wholesale Nurserymen.

The Western Association of Wholesale Nurserymen was in session at Kansas City, Mo., December 14 and 15 and, after reporting a very busy year, with not too much stock, high prices and ready collections, re-elected officers and adjourned to July 11, 1899. The officers elected are: A. L. Brooke, North Topeka, Kan., president; R. H. Blair, Kansas City, vice president; M. V. B. Pearsall, Yates Center, Kans., secretary and treasurer. The executive committee is composed of A. Willis, Ottawa, Kans.; Peter Youngers, Jr., Geneva, Neb.; E. S. Welch, Shenandoah, Ia., and J. L. Bagby, New Haven, Mo.

This association comprises seven-eighths of the stock planted west of the Missouri river. Its members are:

J. Wragg & Son, Waukee, Ia.; Blair & Kaufman, Kansas City; R. H. Blair & Co., Kansas City; Brewer & Stannard, Ottawa, Kans.; A. L. Brooke, North Topeka, Kans.; Bush & Son & Meissner, Bushberg, Mo.; Wm. Cutter & Son, Junction City, Kans.; A. H. Griesa, Lawrence, Kans.; A. C. Griesa & Bro., Lawrence, Kans.; W. H. Heikes, Huntsville, Ala.; Holman & Bente, Leavenworth, Kans.; Jewell Nursery Company, Lake City, Minn.; D S. Lake, Shenandoah, Ia.; New Haven Nurseries, New Haven, Mo.; Peters & Skinner, Topeka, Kans.; Schutte & Cyarnowski, St. Louis; Stark Bros., Louisiana, Mo.; L. R. Taylor & Sons, Topeka, Kans.; Sedgwick Nursery Company, Sedgwick, Kans.; E. S. Welch, Shenandoah, Ia.; Williams & Bernardin, Parsons, Kans.; A. Willis, Ottawa, Kans.; Youngers & Co., Geneva, Neb.



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OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

Chicago Bowling Score.

George Asmus, the newest member, made both the high score and best average at last Friday night's contest. The complete record follows:

Name.	1st.	2d.	3d.	Ave.
Geo. Asmus	187	117	116	140
John Degnan	155	112	149	138
W. Kreitling	145	129	141	138
Fred. Stollery	144	130	141	138
G. L. Grant	132	157	126	138
John Zech	152	119	...	136
Alex. Henderson	130	140	...	135
E. F. Winterson	134	...	...	134
P. J. Hauswirth	107	185	109	133
James Hartshorne	124	144	118	128
Geo. Stollery	117	137	130	128
C. W. McKellar	125	...	...	125
C. C. Pollworth	116	137	112	121
J. S. Wilson	103	...	...	103
H. C. Rowe	70	99	...	84

Crustaceans Banquet Mollusks.

The victorious Flatbush Clams were banqueted by the Lobsters in fine style on Wednesday evening, December 14. Representatives of the horticultural press were present as invited guests and these experienced gentlemen unanimously pronounced the affair a howling success, with but one drawback—the absence, on account of sickness in his family, of popular Dave Mellis, the captain of the defeated, but gamey Lobsters.

Papa Zeller presided at the banquet table and managed to get a speech, song or argument out of each guest. Mr. Prosser spoke for the Lobsters, in the absence of their chief, and challenged their opponents to a contest for another supper. Eugene Dailledouze accepted the defiance on behalf of the Clams and gave his views as to why his side had won, and was followed by Tom Brennan, who tried to explain why his side had lost, and incidentally, why he had parted with his moustache since the last encounter. Louis Schmutz rendered a song in two languages and four octaves, and his example encouraged Messrs. Butterfield, Brennan and Stewart to give examples of their vocal abilities.

It was announced that Mr. Leonhart would present a valuable pin as a trophy to be bowled for. A contest with the Hoboken aggregation is in prospect and a challenge to the New York club will soon be forthcoming. Flatbush is very much alive.

Boston.

MARKET CONDITIONS PREVIOUS TO CHRISTMAS.—CARNATIONS SCARCE.—BEAUTIES AND METEORS HIGH.—TWO KINDS OF HOLLY.—MUCH LAUREL USED.—A VISIT TO WHITINSVILLE.—WONDERFUL CALANTHE DISPLAY.

By the time this paper reaches its readers, Christmas will be a thing of the past. Its record will have been finished and each individual will know just how much good or bad fortune it has brought him. As to how it will turn out no one can possibly predict with certainty, although the great event is but a few days away. So much depends upon the weather then and until then that any forecast would be largely conjecture which, if correct, would be too late to be of any service and, if incorrect, would bring no credit to the prophet, so will refrain from making any predictions.

At present writing carnations, at least, are very scarce in this market and anyone bringing them in at any time for several days past could get a big price and spot cash at that. Violets went up to nearly double values several days ago, also, but the general impression seems to be that there are a good many flowers on the plants and a half defined protest is discernible, which would make trouble if any considerable number of blooms should be picked this week. Roses are selling but indifferently and prices are not far in advance of those prevailing last week, but dealers are quoting stiff figures for later delivery, especially on extra grades. American Beauty and Meteor roses are the exceptions to present general conditions. They are fairly soaring, and it being evident that the supply of both these prime holiday favorites is very limited, the advance to double and triple prices comes easily.

Boston florists are not making any extraordinary preparations for plant trade, although a study of the developments and tendencies of the past few seasons would suggest that they might do so with safety and profit. The only plants of special note seen in the windows are Gloire de Lorraine begonias, which easily outclass anything in the flowering plant line that this market has ever seen at Christmas. Beyond this there is only to be found the usual assortment of Chinese primroses, cyclamens, Jerusalem cherries, etc., in quality fair to medium only.

All are busily engaged in making up holly and laurel, for which the demand seems insatiable. There is holly and holly. Most of the regular stock put up by trustworthy parties on order for reputable jobbers is excellent in every respect, well worth the price quoted and will be well and satisfactorily sold. But we are suffering from an avalanche of rubbishy material most of which is consigned to produce dealers at the public markets to be sold at half regular quotations or less. Occasionally a search may bring to light some good stock in these shipments but the great bulk of it is dear at any price, being aged, dropping, lacking berries and thrown so loosely into the crates that they contain scarcely half the quantity found in the cases of the regular trade. The extreme scarcity of "Princess pine" has quickened the demand for laurel festooning and wreaths which is more decorative anyway than the old-fashioned green and is being used almost exclusively and in unprecedented quantity for draping exteriors and interiors of stores of all descriptions.

On Tuesday a delegation from the Massachusetts Horticultural and the Worcester Horticultural societies visited the Whitin greenhouses at Whitinsville on invitation to see the wonderful display of calanthes there in bloom. Mention was made of these plants on the occasion of a former visit and they now fully carry out the promise made at that time. It can be safely said that the equal of the present display has never been seen in America. The plants are in pans each bearing from four to ten enormous spikes and there are enough of them, with the adiantums, etc., used as a setting, to fill the entire center of a large house. Mr. McWilliam grows them in a low "pit" house where they get no fire heat but plenty of nourishment and only removes them to the big show house after they are fully in bloom. The other attractions here are many, for Mr. McWilliam is a wizard in his profession. There are cypripediums—many of them seedlings—Dendrobium formosum giganteum, anthuriums, dipladenias, daphnes, and Gloire de Lorraine begonias and the stove plants are also very imposing, but the calanthes outdo everything else just now in glory and too much cannot be said in praise of this grand Christmas display. The visitors, about forty in number, were entertained most hospitably by Mr. and Mrs. Whitin and their daughters at their residence.

The new range of greenhouses at the Harvard Botanic Garden are now completed and local papers have been giving due attention to the event. The Boston *Globe* publishes a picture purporting to be a likeness of the genial superintendent Robert Cameron which looks as much like Naval Constructor Amatory Hobson as it does like our sedate friend Cameron.

The greenhouses of W. H. Spooner, on Center street, Jamaica Plain, have been leased by Jerry F. Shea, who has been Mr. Spooner's foreman for many years.

A. W. and H. Belcher, of Winthrop, have opened a branch store at 1317 Washington street.

Visiting Boston: Carl Jurgens, Newport, R. I.

Cypripedium Insigne Laura Kimball.

One of the most valuable yellow forms of Cypripedium insigne is now in flower in Mr. Oakes Ames' collection at North Easton, Mass. It is part of a plant now in the late Mr. Kimball's collection at Rochester, N. Y., which Mr. George Savage flowered several years ago from a collection of imported plants. It is extremely valuable and as far as we know these are the only two specimens in the country. The blossoms are clear golden yellow, devoid of all spotting. The venation in the dorsal sepal becomes very prominent as the flower attains age. The plant has four strong growths and a beautiful well formed flower, and is named C. insigne Laura Kimball, in honor of Mrs. Kimball, the present owner of the collection at Rochester, N. Y.

Heating Notes.

"Why is it that our boiler will not heat as it did the first season it was put in? We use the same coal, fire in the same manner and the house is just as tight as ever it was, and yet we cannot get heat enough, fire as we will." Such a question I have put to me each winter and the usual reply is: "If you will keep the flues as clean as they were in the new boiler, you will get just as much heat."

Whenever I am called upon to report on a defective heating apparatus, one of my first actions is to look in the flues of the boiler, and it is surprising in how large a proportion of the complaints I find the cause to be dirty flues. I have in mind a case where the firemen, on having his attention called to about one and a half inches accumulation of soot in the flues, explained his reason for such condition thus: "Sure, I don't brush that off 'cause it's a non-conductor, and helps keep the heat in the water."

The flues of a boiler are similar to our own digestive organs, inasmuch as, if they are kept free and clean, all is well, but if choked and clogged, trouble ensues. The brushing out of the flues daily is a small operation, but saves many times its cost in fuel. HENRY W. GIBBONS.



GEO. WITTBOLD

Established 1857, 'Phone Lake View 136

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Tropical Plants

1708 North Halsted St., CHICAGO.

If you want any goods in our line we can give very best of satisfaction in every respect. We want your future trade and know a trial order will make you a regular customer for whatever of our goods you may need. We hope to be favored with a trial order. Satisfactory references or cash must accompany all orders from parties with whom we are not acquainted. Following is a list of the stock we offer. It is in excellent condition and we are confident we can please you, both as to quality and price.

PALMS.

Measurements, top of pot to top of tallest leaf.

Varieties.	Size Pot.	Height Inches.	Character Leaves.	Prices. Each.	Doz.
ARECA LUTESCENS	5-inch	22-26	6-10	$.50	$5.00
" "	6 "	24-28	8-10	.75	9.00
" "	8 "	40-50	15-20	2.50	30.00
COCOS WEDDELIANA	3 "	10-14	4-6	.25	2.50
KENTIA BELMOREANA	6 "	24-26	5-7	1.50	18.00
" "	8 "	36-40	4-6	2.50	30.00
" FORSTERIANA	6 "	32-36	3-5	1.25	15.00
LATANIA BORBONICA	4 "	14-16	2-3	.25	3.00
" "	6 "	20-24	5-6	.75	9.00
" "	8 "	24-30	5-6	1.50	18.00
" "	9 "	34-36	7-8	2.50	30.00
PHŒNIX RECLINATA	5 "	18-20	4-5	.50	5.00
" CANARIENSIS	6 "	22-26	5-6	.75	9.00
" "	7 "	26-30	8-10	1.00	12 00

If in need of large specimens of Latania Borbonica, Corypha, Areca Lutescens, Pandanus Utilis or Veitchii, etc., write us for sizes and prices.

MISCELLANEOUS.

	Each.	Doz.
ARAUCARIA EXCELSA from 6-in. pots, perfect plants	$1.50	$18.00
" " " 7 " " "	2.00	24.00
" " " 8 " " "	3.50	40.00
ASPARAGUS SPRENGERII, 4 " nice plants	.20	2.00
" " 5 " "	.25	3.00
" " 6 " "	.50	6.00
" PLUMOSUS NANUS 2 " " $5 per 100		
" " " 3 " "	1.00	
" " " 4 " "	1.50	
DRACÆNA FRAGRANS, strong plants from 5-in. pots	.50	5.00
PANDANUS UTILIS " " 5 "	.50	5.00
" VEITCHII " " 7 "	2.00	24.00
PEPEROMIA VERSCHAFFELTII " " 3 "		1.00
" " " 4 "		1.50
SANSEVIERA JAVANICA VARIEGATA 3 "		1.25
CYPERUS ALTERNIFOLIUS, strong plants, 4 "		1.00
" " 5 "		1.50
SELAGINELLA EMILIANA nice plants from 4 "		1.50
" MARTENSII " " 4 "		1.50

FERNS.

Varieties.	Size pot.	Doz.	per 100
ADIANTUM CUNEATUM 2-inch		$.50	$4.00
" " 3 "		1.00	8.00
" " 5 "		2.00	16.00
CYRTOMIUM FALCATUM 3 "		1.00	8.00
LOMARIA GIBBA 3 "		1.00	8.00
" " 4 "		1.50	12.00
NEPHROLEPIS PECTINATA 4 "		1.50	12.00
" " 6 "		3.00	25.00

Varieties.	Size pot.	Doz.	per 100
NEPHROLEPIS EXALTATA 4 "		1.50	12.00
" " 5 "		2.00	16.00
" BOSTONIENSIS 10 "			
$2 50 each		30.00	
" PHILIPENSIS 4 "		1.50	12.00
PTERIS UMBROSA 2 "		.50	4.00
" SERRULATA 2 "		.50	4.00

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Pine Needle Soil, large barrel, $1.50 each.

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ORCHID BLOOMS—L. acceps and L. autumnalis, until Dec. 15th, $2.00 per dozen; $12.00 per 100.

BULBS—Milla biflora, Bessera elegans, Cyclobothra flava, Tigridias Pavonia, Conchiflora and Rosea, per 100 $1.50; per 1000 $12. Amaryl is Formosissima and Pancratium "Spider Lily", $2.00 per 100.

CACTI—A collection of 25 different varieties $3.00. 100 Cacti in 6 good varieties, $6.00. Old Man Cactus per dozen $3 00.

ORCHIDS. Lælias majalis, albida, anceps and autumnalis, $3.50 per dozen; $25.00 per 100 Odontoglossums Cervantesi, Maculatum, Nebulosum, Rossi, $3.00 per dozen; $20.00 per 100 Cattleya Citrina, $3 00 per dozen; $20.00 per 100. A sample collection of 20 different varieties, prepaid, $5.00.

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Areca Lutescens, Kentia Belmoreana, Cocos Weddeliana, Kentia Forsteriana, Livistona rotundifolia, Phœnix rupicola, Phœnix reclinata, Araucaria excelsa, Pandanus, Ferns. The largest stock of Kentias in America.

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From $5 per 100 and $40 per 1000 to $1 each

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SPIRAEAS Japonica.....Per 100, $3.50
Compacta..... " 6.00
Astilboides Floribunda " 6.00
Palmata, b'utiful pink " 10.00
Extra strong clumps.

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50,000 SEEDLINGS NOW READY,

Cyclamen Persicum Splendens (giganteum), transplanted from flats, in four true colors, $3 per 100. $25 per 1000. **Cineraria** Hybrida Nana and Grandiflora, from flats, $1 50 per 100. **Chinese Primroses** in finest mixture, from 3-in. pots, $4 per 100; from 4-in. pots, $5 per 100. **Geraniums, Ivy Geraniums, English Ivy,** prices quoted on application.

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ROOTED CUTTINGS of NEW VARIETIES of **CARNATIONS**

Special prices to those who issue lists or who buy to sell again. Let us know what you are likely to need and get prices.

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The best SCARLET CARNATION. Rooted Cuttings ready now. $4 per 100; $35 per 1000.

Evelina	Gold Nugget	Mrs. Joost
White Cloud	Armazindy	Mrs. Jas. Dean
Victor	Flora Hill	Mrs. Bradt
Argyle	Jno. Young	Psyche, Etc.
Empress	Triumph	Ready Jan. 1st.

No order too large. None too small.

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A Few Special Flower Seeds.

Musa Martini	per 100 seeds,	$2.00
" alba indica	10 "	.25
" rosacea	10 "	.25
Lotus Canariensis floribunda	100 "	.35
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Paris Daisy, large flowering yellow	tr. pkt.,	.25
Adiantum cuneatum	"	.50
" fragrantissimum	"	.50
Nephrolepis exaltata	"	.50
Pteris cretica alba lineata	"	.50
Lemon Verbena, new seed	"	.25
Thunbergia fragrans	50 seeds,	.50
Bocconia frutescens	100 "	.25
Victoria regia	12 "	1.00

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H. B. MAY invites inquiries for the above, of which he holds a very large and varied stock, including all the most useful market sorts and a large selection of choice novelties. Leading sorts can be quoted per 100 or 1000. Please name special sorts required. Quotations per return mail.

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Medal awarded on Palms at World's Fair, 1893.

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100,000 strong LATANIA SEEDLINGS and 25,000 FERNS for dishes at $3.00 per 100, $25.00 per 1000.

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ALBERT FUCHS,
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Mention the American Florist.

Cincinnati.

THE BEFORE CHRISTMAS TRADE NOT UP TO FORMER YEARS.—CARNATIONS PRECEDE ROSES IN DEMAND.—WINDOW DECORATIONS.—THE GREENS MARKET.

A slight improvement has been felt in the cut flower market the past week, although the amount of business done falls short of corresponding weeks of former years. Chrysanthemums are practically all gone. Carnations promise to be in best demand for Christmas, with roses second in favor. At present roses are comparatively abundant, but most likely a shortage will be felt when a heavy cut is most needed. Some good stock of Lilium Harrisii is coming in and a good supply will probably be in for Christmas.

Poinsettias, with their ever-pleasing scarlet color, are seen in the Sunderbruch's Sons' show windows with some well grown azaleas in full bloom. J. A. Peterson's window decoration consists of choice orchids, which always attract special attention. Critchells' Sons are making a great display of salable decorative plants for the holidays. The Hoffmeister Floral Co. is very busy and their window decoration of blooming as well as decorative plants intermixed with choice cut flowers deserves special mention.

Lycopodium has moved from $5 per crate to $10 and is scarce at that. Holly can be seen everywhere, but as a rule is not of very fine quality and none too well berried. J. Wilder & Co. received a shipment of 120 crates on Friday and all were disposed of the following day.

H. SCHWARZ.

HARTFORD, CONN.—Robert Veitch, of New Haven, and A. N. Pierson, of Cromwell, have been elected vice-presidents of the Connecticut Horticultural Society.

LA FAYETTE, IND.—Fred. Dorner & Sons received both first and second premiums on cut flowers at the annual exhibition of the Indiana Horticultural Society at Indianapolis.

PORTLAND, ME.—The store of Albert Dirwanger, on Exchange street, was damaged by smoke and water during a fire in the building in which it is located, on the night of December 11.

NORTH TARRYTOWN, N. Y.—J. M. Cooke and Wm. F. McCord, who have been in the employ of the F. R. Pierson Co. for a number of years, have opened a flower store on upper Main street.

SOUTH HADLEY FALLS, MASS.—The greenhouse and adjoining buildings belonging to Jos. J. Beach were damaged by fire on December 11 to the extent of $1,000. Cause, overheated boiler. Insurance, $800

MINNEAPOLIS, MINN.—The florists of the Twin Cities, at a meeting at the Ryan hotel, appointed a committee to secure a law during the next session of the legislature prohibiting state institutions from selling flowers in competition with the regular dealers. The committee consists of A. S. Swanson, L. L. May, C. A. Smith, St. Paul; R. J. Mendenhall, Minneapolis.

SPECIALTIES IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.
Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N.Y.
Mention The American Florist.

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FOR thirty-five years We have made a **Specialty** of the **PETUNIA.** This year we again offer a set of fifteen varieties, unsurpassed either in this country or abroad. The plants are well established in three-inch pots, full of vigor, and will furnish quantities of cuttings in a short time.

These plants must not be compared in price with rooted cuttings or plants just potted off. The set is composed of the finest colors, especially suited for the retail trade. **$1.00** per doz., **$8.00** per 100. The set of 15 varieties for **$1.25. DOUBLE FRINGED PETUNIA SEED,** our own saving, **75 cts.** per 500 seeds; **$1.50** per 1000 seeds.

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Carnation Seed

Hand fertilized from the finest named winter-blooming varieties Try your hand at securing a **PRIZE WINNER.** To encourage competition we will for sixty days send sample order of **ONE HUNDRED** fresh seeds on receipt of..... *25 CENTS*
our former price having been One Dollar per 100.

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PALM Seed. FRESH ON HAND

	100	1000	3000
Kentia Belmoreana.....	$1.00	$6.50	$15.00

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Orchids!

We a now booking orders for **CATTLEYA LABIATA** for spring delivery. Early orders solicited.

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Asparagus Sprengeri

50,000 Plants to 2½-inch pots, $5 00 per 100, express; 24 for $1.50 by mail. Specimens for 8-in. pots, $6 00 per 12.

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It is time you were thinking about
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for next season. It pays to buy only the best. Will have them in large quantities, of all the leading commercial varieties. Ready Jan. 1st and later. Write me for prices.

Address CHAS. CHADWICK,
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F. DORNER & SONS CO.,
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Sweet Peas For Easter..... SOW SEED NOW.

EXTRA EARLY BLANCHE FERRY, pink and white, lb. 50c, ¼ lb. 15c, oz. 5c.

EMILY HENDERSON, white, lb. 40c, ¼ lb. 15c, oz. 5c.

NEW COUNTESS, lavender, lb. 60c, ¼ lb. 20c, oz. 10c.

SEND for list of other kinds. If by mail, add 8 cents per pound for postage.

VAUGHAN'S SEED STORE,
NEW YORK, 14 Barclay St. CHICAGO, 84-86 Randolph St.

Are you going to carry a list of

DAHLIAS

in your '99 Catalogue? If so it will pay you to correspond with me. I prepare lists and arrange the Dahlia pages for florists and seedsmen free of charge.

Write for prices, etc.

W. W. WILMORE, DAHLIA SPECIALIST, ... Box 382, **Denver, Colo.**

ROOTED CUTTINGS, well rooted.

	per doz.	per 100	per 1000
HELIOTROPE, 5 vars.	20c	$1.00	$8.00
FUCHSIAS, 6 "	20c	1.25	
VINCAS Major and Minor	15c	.75	
PETUNIAS, Dbl., 10 vars.	20c	1.25	10.00
VERBENAS, 12 vars.	15c	70	6.00
ALYSSUM, new Dbl. Giant	20c	1.00	8.00

Mail or Express prepaid.

S. T. DANLEY, MACOMB, ILL.

Crimson Rambler

DORMANT FIELDGROWN PLANTS

We have a few thousand extra heavy plants of **Crimson** and **Yellow Rambler,** cut back ready for potting in 10-inch pots for Easter bloomiug. Tbis is A1 stock, the finest we have ever had.

$20 per 100, Ligbter Grade, **$15 per 100.**

THE DINGEE & CONARD CO., West Grove, Pa.

Geranium "MARS"

	Per Doz.	Per 100
ROOTED CUTTINGS	$.50	$3.00
2½-INCH POTS	.75	5.00

Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

HYDRANGEA OTAKSA

XX strong plants, per doz., $3.50; per 100, $27.50
" " for 8-inch pots..... per doz., $3.00; per 100, $20.00
Medium size. " 2.00; " 12.00

ERICA FRAGRANS, 5 & 6-in. pots, per doz., 4.50
Extra fine plants.

DUTCH BULBS & INDIAN AZALEAS now at hand.

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WANTED.

Bench-grown Roses from growers throwing out early. State variety and price.

DISCARD, care American Florist.

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YOU RUN. NO RISK.

ALL Carnation Cuttings are sent out with the privilege of returning them at my expense if they are not found satisfactory on receipt, and your money returned you in full. I have from one to five thousand stock plants of each of the leading varieties, and offer cuttings at very reasonable prices.

Correspondence solicited before you place your orders.....

White—Flora Hill, Alba Superba, Genesee, Evelina, Jack Frost.
Pink—Triumph, Victor, Daybreak, Frances Joost, Argyle, New York, Oneida.
Scarlet—Jubilee, Bon Ton, Firefly, Wellesley, Red Jacket.
Yellow—Gold Nugget, Eldorado, Mayor Pingree.
White Variegated—Mrs. Bradt, Armazindy, Lily Dean.
Crimson—Empress.
Red—Thomas Cartledge.

ALBERT M. HERR, Lancaster, Pa.

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Fine pot plants, $2.50 per 100; $20 per 1000. Rooted Cuttings, 75c per 100; $6.00 per 1000; $50 per 10000

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

Geraniums

Well-rooted cuttings, best varieties, mixed, $1.00 per 100; $9.00 per 1000.

Cash with Order.

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Lettuce Plants

BIG BOSTON, BOSTON MARKET, GRAND RAPIDS and TENNIS BALL.

Extra strong plants, 15 cts. per 100; $1.00 per 1000; $8.50 per 10,000. If by mail, add 10c per 100.
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We are Headquarters for all '99 Novelties. Also complete list of best commercial varieties.

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SMILAX now ready.

Why use poor Smilax? Get the best. I have 16,000 feet of glass devoted to the culture of Smilax. Orders booked now for Christmas. Write for prices.

H. TONG, 18 Nathan St., Ashtabula, O.

BEGONIAS.

	Per 100	Per 100
Argentea guttata.....2-inch, $2.00;	3½-inch,	$4.00
Feastii, Speculata.....2-inch,	2 00;	
Rubra.....2-inch,	3.00;	
Bertha Chatteaurocher, Robusta.....3½-inch,		4.00
De Lesseps, Pres. Carnot.....3½-inch,		4.00
Roses—La Franca $3.00 per 100; Meteor ...		2.50
White, Pink and Yellow Rambler 3½-inch		4 00
Full standard list. 2½ in., 3½ in and 4 in.		

THE NATIONAL PLANT CO., Dayton, O.

GOOD STOCK

		per 100	per 1000
GERANIUMS, Harmiue, La Favorite and White Swan.	2¼-in.	$1 50	$10.00
Up-to-date, our selection .	"	2.00	15.00
BEGONIAS, flowering .	2¼ & 3-in.	2 00	15.00
COLEUS, up to-date bedders,	2¼-in.	1.00	8.00
IVY GERANIUMS, mixed .	"	1.50	12.00
HELIOTROPES, 3 fine bloomers	"	2.00	15.00
IRESINES, red and yellow . .	2½-in.	1.75	12.00
VELVET PLANT . . .	2¼-in.	2.50	20 00
FEVERFEW LITTLE GEM	"	1.75	12.00
NEW COLEUS BROWNII. .	"	5.00	
SALVIAS, 3 varieties . .	"	1.75	12.00
PETUNIAS, 10 fine varieties .	"	2.00	15.00
MME. SALLEROI Geraniums	"	2.00	18.00

5 plants at 100 rate.

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PANSIES WORTH RAISING.

Good Small Plants from cold frames or greenhouse only, at $4.00 per 1000. All others not accessible at present.

CASH WITH ORDER. **Seed as usual.**

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We challenge the world to show anything finer, size of bloom, variety of color and shades. They will rival a good chrysanthemum show. To introduce our Verbenas everywhere we will deliver at your door, express prepaid, for 30 days only, elegant plants out 2 and 2½-in. pots, full of cuttings, at $2.00 per 100. Strong rooted cuttings at 60c per 100, $5.00 per 1000. Cash with order. We can supply you cheaper than you can grow them and with a kind that sells at sight and will make you money. Send for our descriptive list—just out.

SOUTH SIDE FLORAL CO., Springfield, Ill.

Adiantum Farleyense.

FINE PLANTS

In 5-inch pots, at $9.00 per dozen.

EDWIN LONSDALE, Wyndmoor, Chestnut Hill, PHILADELPHIA.

Money order office, Sta. H, Philadelphia.

For Sale!

TRANSPLANTED PANSY PLANTS.

$5.00 per 1000. Cash with order please.

WOLF & CO., Savannah, Ga.

THE JENNINGS STRAIN **PANSIES.** SEED. PLANTS.

Finest mixed. Good little plants for cold frames, $4 00 per 1000, express.
Seed, $1.00 per pkg, $5 00 per ounce.

E. B. JENNINGS, L. B. 254, **Southport, Conn.**
Grower of the Finest Pansies.

Helpful Reminders.

Seed of cyclamen, dracæna, lobelia, verbena, centaurea, Cineraria maritima, Pyrethrum aureum and Marguerite carnation should be sown now in flats with soil porous so as not to form a crust on top but deep and heavy enough not to dry too rapidly when seed begins to swell.

About January 1, dormant roses, pot-grown should be cleaned, put into pots with fresh soil and started in a cool temperature. As soon as new rootlets are formed, move them into the heat and moisture recommended for such roses as Bridesmaid; the Rambler roses are particularly desirable for Easter decoration.

Longiflorum lilies will thrive in an even temperature of 60° after January 20 and should not be allowed to wilt for fear of green fly. If your benches are not covered with soil spread moss between the pots to prevent rapid drying.

Hydrangeas intended for Easter should be put in the warm now and watering increased as foliage develops. Be sure the drainage is good and keep the water pot busy.

Those who have not provided satisfactory sub-irrigation for their benches cannot be too careful in watering, as the roots are now very apt to dry from below. Adiantums are most apt to suffer in this way, as the new frond development depends largely on the new roots and the old fronds do not show that the harm is being done.

Bougainvilleas are showing color now and should be kept warm. Unless Amaryllis belladonna is making good foliage now you will not have good bloom next fall. All fancy caladiums, tuberous begonias, and gloxinias are now dried out and are best packed in boxes of dry sand, labeled and put on the shelf. C. B. W.

TOLEDO, O.—The palm swindler has, apparently, turned his attention to smaller, although similar, operations among flower sellers but was thwarted and narrowly escaped arrest when he attempted to defraud Geo. A. Heinl.

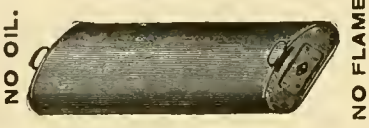
HAVERHILL, MASS.—Chas. Kaulback's greenhouses would have been entered by burglars December 3 had it not been for the bravery of an employe named Frank Sargent who drove the robbers away with a hammer, seriously wounding one of them.

AUBURNDALE, MASS.—F. W. Fletcher has formed a partnership with Nelson Freeman under the name of Freeman & Fletcher. The new firm will build four houses in addition to the original range of Mr. Fletcher's and will grow violets and miscellaneous stock.

ALEXANDRIA, VA.—A very pleasant birthday party was given Friday evening, December 16, in honor of W. Arnold, rose grower for J. Louis Loose. There were many guests and Arthur Hebel made a very good speech in presenting Mr. Arnold with a handsome chair given by his fellow employes.

BROCKTON, MASS.—The annual meeting of the Florists' Club was held on the evening of December 6 and the following officers were elected: President, F. B. French; vice-president, John McFarland; secretary, W. E. Baker; treasurer, C. A. Leach; executive committee, J. McFarland, H. E. Barrows, A. D. Copeland and John Kindregan. A committee was appointed to make arrangements for a course of entertainments for the winter.

THIS IS IT.



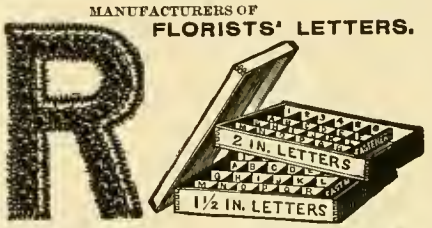
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St. Paul.

PROSPEROUS TIMES AT THE TWIN CITIES.—GOOD FLOWERS IN EXCELLENT DEMAND.—VIOLETS TO SHIP TO CHICAGO.—A NEW STORE.—JOTTINGS.

Trade has been very good both in cut flowers and greens. The weather has been bright and favorable and stock has been plentiful and of good quality. There will be a good crop for the holidays but the big demand may keep prices high.

Buyers are asking for Beauties and are willing to pay $12 to $15 per dozen at retail for choice stock. Meteors are also in good demand and sell readily at retail at $3 per dozen. Carnations are in fine favor and choice stock finds ready customers at $1 per dozen. There is a scarcity of Harrisii. Violets are plentiful at $1.50 per hundred. Christian Hansen has a fine crop of them, picking about 8000 from one house this week. Part of these are being shipped to Chicago. Flowering plants are not very plentiful. Bouquet green is very scarce and the loose article impossible to obtain. Wreathing is quoted at $6 per 100 yards, higher than in ten years. Holly is somewhat scarce. Some choice mistletoe has found its way into this market from Texas and Indian Territory.

The last meeting of the Florists' Society was well attended and considerable interest manifested. Hereafter the society will meet on the second Saturday evening in each month.

Flower stores are becoming quite numerous in this city, the latest being opened by John A. May at 18 West Sixth street. His store is fitted up in an attractive manner and is centrally located.

L. L. May & Co. recently shipped to North Dakota an order for designs and several thousand cut blooms amounting to upwards of $500. FELIX.

Nashville, Tenn.

The outlook promises a large trade for the holidays with an abundant supply of stock of every kind. Prices will be moderate.

There will be several moves made by florists with the new year. Joy & Son will remove a few doors east of their present location on Church street. Geny Brothers, two very clever young men who have long grown flowers, have opened an up-town store in the Lulane hotel, near neighbors to Currey & Co.

Mrs. E. Kramer does a very flourishing business on North Cherry street, and commands a large part of the German trade.

Geny Brothers have produced a very pretty seedling carnation, not unlike Wm. Scott, as yet un-named.

The local holly is well berried and of most excellent quality and the mistletoe is fine this year. M. C. DORRIS.

Springfield, Mass.

At the annual meeting of the Hampden County Horticultural Society the following officers were elected: R. Hale Smith, president; Clark W. Bryan, first vice-president; Joel H. Hendrick, second vice-president; Jacob C. Lutz, third vice-president; H. Curtis Rowley, treasurer; William F. Gale, secretary.

The society will hold three exhibitions during 1899, a rose show in June for members only, a sweet pea show in July which is to eclipse all previous successes, and a fall show.

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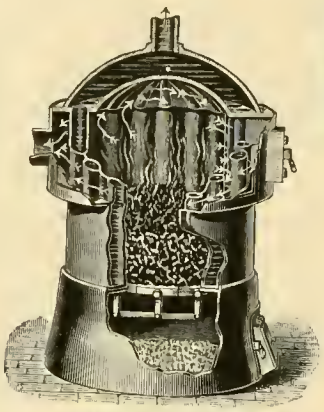
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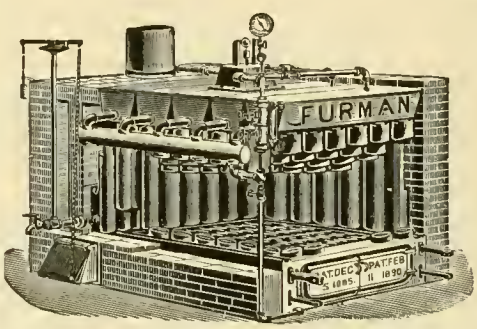
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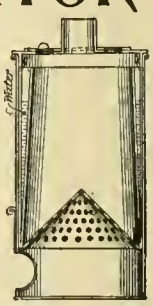
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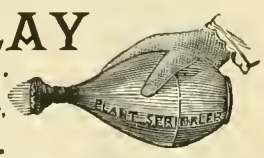
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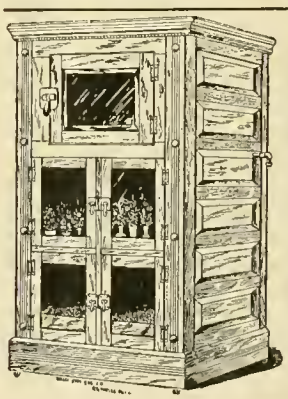
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Vol. XIV. CHICAGO AND NEW YORK, DECEMBER 31, 1898. No. 552.

THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fifteenth annual meeting will be held at Detroit, Mich., August, 1899.

OFFICERS-ELECT [to be installed Jan. 1, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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THE CHRISTMAS TRADE.

The reports at hand of Christmas trade, representing thirty-three important points in seventeen states, with one Canadian city, are very encouraging and certainly afford the hard-times croaker no opportunity for patting himself on the back or "I-told-you-so" reiteration. From these a careful estimate places the increase of business at, approximately, twenty per cent over that of last year. Decreased business is reported in only two instances.

Retail prices in general were about the same as last year, though occasionally higher, especially for flowering plants, carnations and roses. The supply of flowers, etc., with a large majority, was equal to the demand. There was a small shortage of roses and violets, but with the large increase of space and attention recently given the carnation it is quite surprising to find that the supply of this flower ran short in many sections. Two Massachusetts reports, one Missouri and one Canadian indicate a short supply of flowers in general. Quality generally better, with some complaint about shipped stock; roses and carnations in a few cases reported not so good as last year. An increased demand is noted for carnations, violets, roses and poinsettias in the order named; where mentioned at all, bulbous stock appears to be on the down grade.

Most of the reports indicate an increased demand for plants, with preferences slightly in favor of flowering sorts as against those with ornamental foliage, though palms and ferns appear to be in brisk demand, especially the former. In flowering plants the azalea is easily leader, followed in the order named by cyclamens, hyacinths, primulas and narcissi. Several of our correspondents make mention of a largely increased demand for holly, greens and Christmas trees.

Details of a number of the reports follow herewith:

PORTLAND, ME.—Christmas trade was heavy but stock in many lines was short, particularly American Beauties, violets and white carnations. Some beautiful azaleas sold quickly. C.

ATCHISON, KANS.—Business was good, about the same as last year; enough stock and twenty-five per cent better in quality than last year; increased call for carnations but not for plants. R. J. G.

HAVERHILL, MASS.—This Christmas was ten per cent better than last. Flowers were fine and were equal to the call. Violets and red carnations were the favorites. Greens sold well. G. H. H.

NEW BEDFORD, MASS.—Trade was one-third less than last year and even at that there was not stock enough to supply the demand. Increased call for violets and flowering plants. Big call for greens. E. S. H.

NEW LONDON, CONN.—Business was about equal to last year's holiday season. Carnations were scarce and advanced slightly in price. The call for palms and flowering plants was rather ahead of last year. J. S.

ROCHESTER, N. Y.—Christmas showed an increase over last year; everything sold out clean. Although the supply of flowering plants was greater than ever before it was not nearly equal to the demand and prices were higher. J. B. K.

ALBUQUERQUE, N. M.—Business was twenty-five per cent better than a year ago. There were not quite enough flowers but they were of good quality. Roses and carnations lead. No call for plants. B. H. I.

PADUCAH, KY.—This Christmas was fifty per cent ahead of last; roses and carnations were in short supply, so that prices were higher. Flowers were very good. Special call was for palms, ferneries and blooming plants. C. L. B.

IOWA CITY, IA.—There was twenty-five per cent increase in holiday trade and prices were higher although the supply was up to the demand, many flowers being shipped in, most of them being poor. Carnations were favorites. J. A.

BUFFALO, N. Y.—Trade was thirty per cent better than last year; prices about the same; good stock and plenty of it except carnations. There was an increased demand for carnations, violets and decorative plants. W. A.

ST. PAUL, MINN.—The total sales were twenty-five per cent greater than last year and prices were somewhat higher. The supply of stock seemed adequate and the qualities were much better than usual. There was an increased call for palms and ferns. Buyers were not bargain hunters and were willing to pay stiff prices for good flowers. D.

SPRINGFIELD, MASS.—Trade this Christmas and last showed little difference. There was an inadequate supply of stock but there was a considerable improvement in quality. There was a decreased demand for pot plants of all kinds. G. M.

SYRACUSE, N. Y.—Trade was equal to last year; roses and carnations were higher; home grown stock was better, so were shipped in roses but shipped carnations were poor. No call for bulbous stock and good chrysanthemums did not sell. B.

CINCINNATI, OHIO.—Retail sales were twenty-five per cent greater than last year with supply equal to demand except of carnations. There was an increased sale for poinsettias but otherwise the plant sales were about the same as heretofore. Azaleas were scarce. H. S.

NORTHAMPTON, MASS.—There was five per cent increase in Christmas sales. Carnations and violets were short. Every plant in bloom was sold. There was a rush on the last day as nothing stirred during the first five days of the week. G. W. T.

OTTAWA, ONT.—Christmas trade was double last year with an inadequate supply of stock; prices ruled equal to previous holidays. Increased demand for carnations, roses, violets and chrysanthemums. Azaleas, palms and ferns sold better than ever before. G.

DAYTON, O.—The volume of Christmas trade was one-fourth greater than last year and prices were correspondingly higher. Supply was equal to demand. There was less call for hyacinths but a wonderful increase in the sales of palms, ferns and azaleas. J. B. H.

PITTSBURG, PA.—Trade was fifteen per cent better than last year and flowers were generally of much better quality. Prices were about the same as last season and the supply was equal to the demand. Decorative plants and ferneries sold better than ever before. R.

NASHVILLE, TENN.—There were fair flowers enough to supply Christmas business exceeding by fifty per cent the volume of last year's holiday trade. Plants sold at better prices than ever before and there were plenty of many kinds. M. C. D.

WATERTOWN, N. Y.—This year's holiday showed twenty-five per cent increase in business. We were short on carnations but there were plenty of roses and violets at the prices asked for them. Good late chrysanthemums were what the people wanted. Cheap plants sold well. W. R. S.

TOLEDO, O.—Business for the holidays was double that of last year and there was not more than half enough stock. Qualities were far better than last Christmas. Violets and carnations were in extra demand. Azaleas and large palms sold finely and everybody paid cash. E. S.

COLUMBUS, O.—There was an increase of forty per cent in Christmas business. Roses were twenty per cent higher than last year and carnations twenty-five per cent. Stock was good and about equal to demands. Carnations were the leaders. More call for high priced palms; last year $1 plants were asked for, this season $2.50 to $4 was the popular price. F. D.

PARKERSBURG, W. VA.—Cash sales exceeded last year by twenty per cent. The supply of stock equaled the demand and was of fair quality. There was a fine sale for Ficus elastica, araucarias and latanias. Trade on greens exceeded anything in fifteen years. Carnations sold splendidly. G. A. H.

WASHINGTON, D. C.—There were no dull days in December and Christmas was fifteen per cent ahead of last year. There was stock enough but prices were better and qualities good. Far more plants were sold than ever before, leading dealers having prepared immense stocks of azaleas and first-class cyclamen. A. G.



GEORGE M. GERAGHTY.

KOKOMO, IND.—There was an increase of fifteen per cent and prices were twenty-five per cent better. Supply equalled demand but was not greater. Roses were not so good, carnations much better. Much call for the latter. Increased sale for palms, Orders for American Beauties had to be declined. W. C.

SPRINGFIELD, MO.—The demand for stock and Christmas prices did not vary materially from last year. Roses and carnations were in short supply, the call for carnations being noticeably brisk, although sixty per cent of the customers asked for roses. There was a decreased demand for plants. W. A. C.

GRAND RAPIDS, MICH.—Business was ten per cent ahead of last year. Carnations were great sellers and advanced in price, particularly reds. Plenty of roses and violets; great demand for latter. Plant sales decreased twenty-five per cent. Holly sold well but dealers have wreathing left. J. A. C.

INDIANAPOLIS, IND.—Increase of ten or fifteen per cent in trade; prices not higher than last year; quality better; supply equal to demand; increased call for plants; poinsettias sold well. In cut flowers colors were generally preferred to white but in blooming plants, particularly azaleas, white sold better than pink. H. J.

ST. LOUIS, MO.—Holiday business was not up to last year although retail prices were the same and there were not enough flowers to supply the existing demand. About half the stock was good and the rest of it very poor. There was an increased call for American Beauty and fancy carnations and blooming plants sold out—then decorative stock went. Would-be purchasers rebelled at the prices of Beauty and violets. J. F. C.

CLEVELAND, O.—The volume of this Christmas business exceeded last year's with all local dealers, increases of from fifteen to fifty per cent being reported. Retail prices were at last year's level, there being a fair supply of all flowers except violets and carnations, for which there was an unusual demand. Flowering plants sold better than last year. A.

WORCESTER, MASS.—This year's holiday trade was fifteen per cent better than last and the supply of flowers more nearly met the demand than ever before: at the same time qualities were much better than usual. There was a big sale for white carnations and large quantities of plants, both decorative and flowering, were handled very satisfactorily. A. H. L.

LOUISVILLE, KY.—Christmas sales were ten or fifteen per cent ahead of last year, although retail prices were only slightly better. There was an ample supply of all stock, generally of good quality, American Beauty being noticeably better than last season. There was a marked increase in the call for violets. The general public seemed to have spending money this year. C. N.

INDIANAPOLIS, IND.—Trade exceeded last Christmas by one-third and better prices were obtained. Shipped stock was generally poor; home grown, fair; shortage of carnations, with big increase in demand. Increase in sale of all plants, palms, azaleas, cyclamen and Begonia incarnata leading. Think high prices charged were an error and turn away trade. H. W. R.

NASHUA, N. H.—Business was one-third greater than last year; much funeral work. Prices higher than a year ago. Increased call for carnations and a considerable shortage. Twenty-five per cent increase in call for flowering plants; not much improvement in sale for decorative stock. Greens sold better than usual. Not so much call for violets as last year. A. G.

A Colorado Wholesaler.

George M. Geraghty is the pushing, progressive head of the largest wholesale florist business between the Mississippi river and the Pacific, and the only one of importance west of Omaha, that of Daniels & Fisher, leading merchants of Denver, Colo. Mr. Geraghty is a Bostonian, having been born in the Massachusetts center of erudition in 1870. Most of his life has been spent at Springfield, Mass., but in 1890 he went to Denver and has been with Daniels & Fisher ever since. Up to July last he was superintendent of their immense establishment and at that time was given charge of their large floral department, which enjoys a splendid wholesale trade extending westward to Portland, Oregon, and southward to Texas. Mr. Geraghty is a confirmed bachelor.

QUINCY, ILL.—Henry Eing's most valued Christmas present was a twelve pound daughter.

OWATONNA, MINN.—Lord & Johnson will erect a range of 5000 feet of glass in the spring and conduct a general florist business. Mr. Johnson is at present gardener at one of the state institutions.

Effects of the Recent Storm at Cottage Gardens, Queens, N. Y.

The snow storm of a few weeks ago had some serious results at many greenhouse establishments in the east, and the effect on houses of varied structure at the Cottage Gardens, Queens, N. Y., as kindly noted by Mr. C. W. Ward, with illustrations prepared from photographs, will not be without interest to our readers:

"The storm began Saturday afternoon with a few fitful flakes, followed soon after by a rushing gale, the air filled with swirling clouds of snow. Throughout Saturday night up to Sunday at 3 p. m. the wind and snow raged ceaselessly, the gale blowing at fifty to sixty miles an hour without any modification. Sunday afternoon the snow ceased but the wind rushed on till well towards midnight.

"During the gale it was impossible for a novice to venture out. The wind whisked one here and there; the cutting, blinding snow filled one's mouth, nose, ears and eyes, obscuring everything, and one speedily lost his bearings. The exposed points of the greenhouses were severely shaken and lost a few lights of glass, but the mantle of snow effectually held most of the glass in place. Huge masses of ice formed on the boiler room eaves and on the glass eaves where angle iron plates or wood plates were omitted and proved very destructive to these glass eaves, breaking twenty-five lights in one house and twenty-three in another.

"The superiority of the angle-iron eave over all other forms was clearly demonstrated as those houses were free from snow on the south slope within an hour from the time the snow ceased falling, while all other houses were well covered with snow at 8:30 the next morning. The illustration, from a photo taken at 8:30 a. m. shows the condition of the glass-eaved houses. Fifteen minutes after this was taken most of the snow and ice had slid off from this roof leaving many serious holes and broken lights at the eaves. Considering the violence of the storm the damage was trifling, save the breakage on the glass-eaved houses. The short-span-to-south houses suffered very little and were all clear on Tuesday morning, the front slopes clearing rapidly Monday morning. The storm proved the superiority of the even-span house running east and west with angle-iron plates over all other forms in existence here as a self-cleaner in severe snow storms. Some idea of the drifts may be had from the illustration showing the snow drifted from the ground nearly to the top of the short-span-to-the-south houses, some twelve feet high.

"A few days after, another gale without snow picked out about 100 lights of glass and tore down the smoke stack, the latter mishap being due to an improperly secured guy cable. It was the worst storm we have had since we came to Queens."



Short-span-to-south houses showing clean fronts on rear houses.

EFFECTS OF THE RECENT STORM AT COTTAGE GARDENS, QUEENS, N. Y.



Three-quarter span house, with glass eaves, showing accumulation of ice at eaves the morning after the storm.

EFFECTS OF RECENT STORM AT COTTAGE GARDENS, QUEENS, N. Y.

CARNATIONS.

CHRISTMAS CARNATION PRICES.

The week before Christmas found carnations in short supply at almost every point except Chicago, yet it was in the western metropolis that top prices were obtained, particularly for the fancy varieties in which so much interest is manifest just now. The highest mark reached was 10 cents, which was obtained for Mrs. George M. Bradt by the Chicago Carnation Company, who obtained first prize for variegated blooms with this variety at the Chicago show. Mayor Pingree, Cerise Queen and Jubilee, strictly fancy, disbudded, brought 8 cents and the other grades of these sorts fetched 6 cents and 7 cents. Such varieties as Daybreak, Scott, Flora Hill, Maud Dean, Argyle, Helen Keller, Niveus and others, when done by the best growers, commanded from 4 cents to 6 cents, but there were plenty of flowers at from 3 cents down, some of the stock which had been held back being difficult to dispose of at any price.

CULTURAL NOTES.

December 31.—Now that the holidays are over we must make haste to get our houses back to their normal temperature. This must be done gradually, as a sudden drop would be productive of split calyxes. Let the temperature fall two degrees lower each night until you have it down to 55° or 50°.

The weather over the holidays with me was such as demonstrates the utter impossibility to give any set rules for carnation culture. With the dull, foggy and moderate weather we had day and night for the week before Christmas, it would be simply ruinous to have increased the temperature of any of my houses; in fact, we were compelled to keep the houses cooler rather than warmer. In all such instances the individual grower must use his own judgment and knowledge of plant life in order to secure the best results.

Nearly all the growers that I have visited this season will have the bulk of their crop of blooms between the dates of January 15 and March 15. This is likely to cause somewhat of an over supply unless it is counteracted by a shortage in other sections. It behooves us to make every effort to turn out the highest grade flowers that our plants will produce. If we do that, no matter how the market may be glutted with carnations, our stock will not only sell up clean but at reasonable prices.

Just how to get the best results is a matter which each one will have to decide for himself In some soils, liquid manure is the best and most effective method of giving the plants a little extra nourishment and in other soils better results can be attained by the judicious application of pure bone meal. In some soils wood ashes give better results than any thing else. The wood ashes are especially good at this season of the year as they seem to add to the vigor of the plants in such a manner that the cuttings are made healthier and better than when liquid manure or bone are used.

Care must be used in stimulation as some varieties will not stand much of such treatment. Scott and Daybreak are notable examples, as neither of these sorts will form perfect flowers if they are overfed. It is better to apply the food in small doses and often as in this case you can watch the effects of it and thus keep on the safe side.

Another very effective element in the production of first-class blooms is to grow them cool, as near 50° as possible. This will produce stiffer stems and

give more substance to the petals, but with some varities it will also produce bursted calyxes and for these latter you will have to increase the temperature in some cases as much as ten degrees. Disbudding must be attended to faithfully and if you are wise the plants will not be robbed of too much foliage for cuttings.

After producing the flowers see to it that they are sent to their destination in good shape. If all this is followed up closely you will be a long way ahead of the shiftless grower and will find a balance in your favor at the end of the season.

ALBERT M. HERR.

CHRYSANTHEMUMS.

AMERICAN VARIETIES IN ENGLAND.

Chrysanthemums of American origin have been so popular with growers in this country for some years past that it may not be out of place at this time to draw the attention of readers of the AMERICAN FLORIST to what appears to be a relaxation of the efforts of American raisers to compete with their French rivals.

A few years ago there was every indication of the contest being long and severe, and the names of the most eminent American growers were as familiar to us as our own. An audit of the best show chrysanthemums, taken at any time during the past ten years, would, I feel sure, contain a very fair proportion of these Transatlantic seedlings. But the last year or two seem to show signs of the American florists relaxing their eflorts, and curiously enough this year our colonial chrysanthemum growers in New Zealand and Australia have entered in strong force upon the scene and in their turn seem likely to enter into a contest with the French.

There is no doubt that both American and Australian growers are handicapped by the distance, and also by the fact that English raisers have been busy in this department of horticultural enterprise. It is a peculiar incident of chrysanthemum culture in this country that after the death of John Salter there was for many years but little attempt on the part of English nurserymen to produce new seedling chrysanthemums of any kind; they were content to rely almost solely upon imported varieties.

The first indication of forthcoming novelties is generally to be found at our floral meetings and at the trade displays and it is safe to affirm that during the present season American novelties have not been seen in anything like the customary number. On the showboards the good old standard varieties have, of course, maintained their reputation, but of novelties, in the strict sense of the word, there are scarcely any and the hunter after new sorts has had to choose between the French and the Australian productions.



CHRYSANTHEMUM QUEEN OF PLUMES.

It may not be generally known to the American reader that here in London a beneficent county council provides the public with a gratuitous display of the popular autumn flower in certain parks. These displays are quite separate and distinct from the shows organized by the many local chrysanthemum societies, and usually open about the middle of October and close about four or five weeks later, the plants being shown in pots and housed in a spare greenhouse, through which the visitors pass from morning till night in greater or lesser number as the circumstances permit, being the most largely patronized on Saturdays and Sundays.

At Finsbury park, right away in the north of London, I noticed Gorgeous, a large yellow incurving Japanese, in very good form; some fine blooms of the early but very tall Mrs. E. G. Hill, pale pink; G. W. Childs, the crimson and gold Japanese, is very attractive on account of its color and in such displays is often used with good effect; Eda Prass is another, and The Egyptian completes the list here.

Victoria park is in the northeast corner of the metropolis and here again G. W. Childs was visible, and also the bright pink William Tricker, which seems to be an especial favorite. Col. W. B. Smith, rich golden bronze, is another; A. H. Fewkes, yellow, and Mrs. E. G. Hill in considerable quantity.

Southwark park lies far away in the southeast corner in a crowded locality near the riverside. There is always an interesting display here and crowds of people throng the greenhouse, especially on Saturdays and Sundays. G. W. Childs is a favorite decorative variety at this place and so, too, is Mrs. E. G. Hill. There were also some blooms of Mutual Friend, the big white Japanese; Wm. Tricker, Gloriosum, Louis Boehmer, Inter-Ocean and Puritan.

Battersea park is in the southwest of the metropolis and the show there always attracts many visitors. The best of the American varieties I noticed there were A. H. Fewkes, Louis Boehmer, Wm. Tricker, Gloriosum, G. W. Childs, very good; Puritan, Eda Prass, W. H. Lincoln, Mrs. Alpheus Hardy, Col. W. B. Smith, Delaware, the anemone; the grand golden yellow Modesto, Good Gracious, etc.

Another means of seeing the chrysanthemum is by going the rounds of the trade displays, and most of the horticultural firms here permit the public to view their greenhouses free of charge during the early part of the season. These collections are in many respects far more interesting than those at the parks because of the many new and unknown sorts that can be seen.

At the establishment of J. Veitch & Sons, Chelsea, there is a very choice collection composed of the most select kinds from all sources. At the time of my visit Modesto was large and very deep in color and was well finished; Mutual Friend is a grand deep flower, pure white; Octoroon, deep rosy crimson, one of Spaulding's introductions of three years ago, was also fine and most effective; Mrs. R. C. Kingston is an incurved variety, large and good—this is

the variety raised by Mr. Surman some years ago and always does well here; W. H. Lincoln is a good yellow, and Col. W. B. Smith concludes the number of striking varieties.

W. Wells, of Earlswood, has usually a very much finer and more comprehensive display than the firm just named. Here were some noble blooms of the white Simplicity, Western King and Mutual Friend. But my notes do not contain any further reference to American sorts, by far the larger number being French and colonial seedlings so far as the big show blooms were concerned.

At Swanley H. Cannell & Sons pay, and have paid, considerable attention to the chrysanthemum for many years past and there is always a floral treat in store for any visitor and a right cheery welcome. The collection here is mainly composed of seedlings and new importations and this year French and colonial are certainly in the ascendant. On entering the big greenhouse containing the main collection almost the first thing of any merit to be seen was Mutual Friend. Mrs. R. C. Kingston was also well represented by some very fine deep blooms. There were also Pennsylvania, a yellow incurving Japanese, the Barrington, purple with silvery reverse, and Glory of the Pacific.

Most growers the wide world over know the name of W. J. Jones, of Lewisham, who purchased the stock of chryanthemums of Pitcher & Manda when that firm retired from their European establishment some few years since. Large numbers of these were named and distributed at the time of his purchase and it is sometimes difficult to decide whether novelties from this nursery may not be some of the survivors or progeny of that collection. At any rate this year there are not many, but Mongolian Prince is a pretty little incurved of undoubted American origin, color deep golden bronze.

At Woking, in Surrey, another well known exhibitor and grower, H. Shoesmith, is established and here I saw some of the very best flowers of Col. W. B. Smith and Modesto that could be grown. Simplicity was also noteworthy for its size and purity of tint. R. Owen of the Floral Nurseries, Maidenhead, is only flowering some of the best of the continentals and his own seedlings, but he keeps all the standard varieties of American origin for stock. Here Glory of the Pacific was freely grown as a bush plant, and in that form is pretty for decoration or grouping. Mrs. W. C. Egan, a fine incurved raised by Dorner, is a lovely flower and will be much admired. Pearl Palace is another.

Norman Davis, of Framfield, is a well known importer of American novelties, but his establishment is too far away from the metropolis for me to go there this season. It is only fair to say, however, that he was one of the first if not actually the first English grower to introduce American novelties. W. J. Godfrey, of Exmouth, is another who has done something of the same kind but his place is far beyond the reach of a metropolitan lover of the autumn flower and can only be partly judged by the material that he exhibits at the London shows and floral meetings.

C. HARMAN PAYNE.

A FIRST-CLASS certificate has been awarded Chrysanthemum Yellow Mme. Carnot by the Dutch Horticultural Society at Amsterdam.



CHRYSANTHEMUM NAGOYA.

AMONG THE NOVELTIES.

Our illustrations show two of the best novelties introduced by Messrs. Nathan Smith & Son, of Adrain, Mich., and described as follows:

Nagoya (Modesto x Western King).—A Japanese of reflexed form, clear bright yellow, as pure as that of Modesto; fine stem and foliage. Cut Nov. 24, a date when good yellows are very scarce. Terminal bud, 4½ ft. Certificated by C. S. A.

Queen of Plumes (Francis B. Hayes x White Swan).—The first double, pink, hairy chrysanthemum yet produced, as all efforts to secure a plumed pink of a pleasing shade and fully double have thus far been in vain. It might be briefly described as White Swan in foliage, fullness, form and time of flowering, more dwarf in habit, but in color a beautiful shade of bright pink. Certificated by C. S. A.

HOMER, N. Y.—Hobart & Coon have dissolved partnership. D. C. Hobart will continue the business. He has 3000 feet of glass.

New York.

REVIEW OF CHRISTMAS PLANT TRADE.—MANY ARTISTIC COMBINATIONS.—MONEY SPENT FREELY FOR NOVELTIES OF INTRINSIC VALUE.—A FINE ASSORTMENT OFFERED. — AZALEAS, ONLY, DISPLAY WEAKNESS.—BIG SALE OF GREEN MATERIAL.—INFERIOR HOLLY UNSALABLE. —UNCERTAINTY IN CUT FLOWER DISTRICT UNTIL SATURDAY.—MANY POOR ROSES ON MARKET.—GOOD PRICES FOR CHOICE STOCK AT CLOSE.—VIOLETS OVERSTOCKED AND PRICE BROKEN.—BRIEF NOTES.

As intimated in our report of last week the Christmas plant trade in this city attained prodigious proportions, far outstripping any previous record. Stock in growers' hands was depleted early and many fruitless trips in quest of plants were made by late buyers who had failed to provide for the increased demand. The retail florists vied with each other in presenting plants in novel and attractive forms and to this well-directed rivalry was undoubtedly due much of the support given them by the buying public.

The plant growers, also, did their part well and recognizing the great advantage to them of an established plant holiday so early in the season, had provided abundant evidence of the foresight and skill of New York's expert plantsmen. Customers were looking for novelty and parted with their money easily and in liberal amounts for anything that pleased them and no better proof of the return of prosperity to the people could have been given.

The variety of plants offered was very large for the season and included heaths, azaleas, poinsettias, primroses, cyclamens and violets in flowering plants, ardisias, oranges and solanums in berried plants, and dracænas, pandanuses, palms, ferns and selaginellas in foliage stock. Nothing finer than the heaths and ardisias could be imagined. They were provided in all sizes and led everything else in popularity. Primula obconica in the improved form and bright pink tints seemed to have regained much of its lost popularity and sold well. In fact, the only plants that met a disappointing reception were the azaleas. Whether buyers are tired of seeing azaleas or whether they regard them as essentially Easter offerings, they certainly did not evince the usual enthusiasm over them. If azaleas could be presented at Christmas with the profusion of bloom given at Easter they might meet with greater favor, but the early forced specimens are sparse of bloom at best. Should they be relegated to the rear and preference given to plants that are American grown from seed or cutting bench to finish, no harm will be done.

To enumerate the many artistic combinations in which plants were arranged would take columns of space. Low zinc-lined baskets, in straw or olive green color and fantastic shapes, were the favorite receptacles. There were combinations of specked and splashed crotons with selaginellas, luxuriant Adiantum Farleyense with lily of the valley, bright foliaged Dracæna terminalis and white striped Dracæna Sanderiana with small ferns, Pandanus Veitchii and poinsettias, oranges and Jerusalem cherries, etc. Heaths, ardisias and dracænas were the choice for center plants and enormous quantities of small cocos palms and ferns in variety were used to fill in the bare spaces. In many cases living plants were combined with cut flowers. Cypripedium blooms were great favorites for this purpose, looking well regardless of the color with which they were brought in contact. One of the most beautiful arrangements seen was a low basket of growing Adiantum Farleyense with clusters of cut Dendrobium Phalænopsis interspersed among the fronds. The basket was olive green and the square handle was brightened with a bow of soft lace matching the pink tints of the orchids. Many clusters of bright red berries and mistletoe were introduced among these plant arrangements with fine effect. Whether in single plants or collections it was the rule everywhere that the soil be hidden from sight by low growing plants or clusters of berries and green and very few bare flower pots were seen. The pot cover almost universally used was an olive green basket of straw braid, and tissue paper was conspicuous by its absence. On orange trees, orange or olive green ribbon was used but otherwise everything flaunted a red bow. The quantity of red ribbon used, in the aggregate, must have cost a large sum for, with the better class of florists, the quality was very fine and they were very particular as to the color, which must be a pure holly berry red. One florist who has his ribbon made to order refused one lot valued at $105 because of a trifling variation in the shade.

All kinds of holiday greens met with an enormous sale. The only loss was on the quantities of inferior holly sent to this market on consignment and which not even the street fakirs would take at the cost of the freight. It is to be hoped that the lesson will have its effect on shippers and that there will never again be a repetition of this useless destruction of this beautiful tree. When bright green and full berried, holly sold well. With this as with mistletoe, in whatever form, the inevitable red ribbon was used. Many other kinds of green were used in the manufacturing of wreaths and garlands. Nothing prettier for this purpose was seen than the bright green box foliage from the south. Large crescent wreaths of this material in combination with retinospora and finished at the base with a cluster of red berries and mistletoe, tied with a scarlet bow, were among the handsomest things shown and brought big prices.

While all this rush was going on doubt and uncertainty ruled in the wholesale cut flower section where, but a few years ago, the rose, the carnation and the violet held invincible sway over the Christmas buyer for a week or two in advance. Wholesalers stood in lonely speculation on the prospects while their customers, the retail florists, were industriously advising the shoppers to buy plants in preference to cut flowers and flower growers were flitting nervously from one commission house to another in quest of guarantees that no one was able to give while the accumulating stock at home was taking advantage of the warm weather and persistently accumulating. An advantage that the plant will always enjoy over the cut flower is that the buyer can see what his purchase is; he can select it a few days in advance and see it addressed. The retail florist also benefits in like manner as he can deliver his plant orders early and get them out of the way. These reasons together with the natural development of the business would in time have brought about the present popularity of the growing plant at the expense of the cut flower but undoubtedly the evolution has been hastened by the indiscretions prevalent in the wholesale cut flower trade and if the pendulum ever swings back again it will only be when the time honored methods of holding stock and inflating prices shall have been abandoned for good.

Now that the cut flower shipping trade in this section is reduced to a minimum, the so-called "holiday prices" cannot be realized until the flowers can be used locally for holiday consumption and the result of high advance quotations and talk of "short crop" is to encourage the storing of stock in anticipation of a rise at the last moment. Some growers do not do it but there are more that do and the injury is shared by the innocent as well as the guilty. This time the trouble was intensified by the warm, sunny Christmas weather following closely on several days of dense fog which left its debilitating impress on the flowers, roses especially, whether on the plant or in the cellar and the quality of much of the stock offered on this market was far behind anything we have seen in years. The volume of business done in cut flowers on Saturday and Sunday was very large and stock was plentiful in most varieties and overplentiful in many. When Saturday morning's avalanche of shipments, good and bad, began to arrive the retailers were not slow to size up the situation and held their peace as to what they would require, only buying what might be necessary for momentary needs. As to prices, anything like uniformity was out of the question. The bulk of the rose stock was necessarily worked off at any figure it would bring.

Only toward evening on Saturday did it become apparent that good Bridesmaids were wanted and when they filled the bill they sold sharp at 12 to 25 cents. Second class material cut no figure whatever even then and Brides were unfortunate all through. Meteor was a good seller from beginning to end of the week. Beauty did not quite reach predicted rates but cleaned up finally in pretty good shape, considering the heavy shipments; $1.25 each was generally outside figure obtained for the very best. Carnations were sold at figures considerably below previous estimates. Really fine stock sold well but at moderate prices, colors and fancy varieties well in advance; the pale and sleepy kind remained unsold. As to violets the amount received far exceeded the estimates of the growers and the demand was inadequate to absorb more than three-fourths of the number available, the balance, numbering many thousands, being left in wholesalers' hands till Monday morning. Prices fell from $3 to $2.50 and finally to $1 per hundred. Hyacinths, narcissi, stevia, lily of the valley and ferns were as usual in over-supply and not cleaned out. On Monday trade was light and buying on a small scale. Extra Bridesmaids sold out all right but Beauties were not wanted. Violets repeated the slump of Saturday. A number of retailers are authority for the statement that the violet trade was much lighter than usual, all through, notwithstanding the salubrious weather.

Among the odd things seen at the wholesalers' for Christmas were Gontier buds at Julius Lang's, tulips at J. I. Raynor's and lilacs at E. C. Horan's. A novelty in the plant line was a lot of thrifty little plants of Cypripedium Spicerianum bearing from three to ten flowers each, at Siebrecht & Son's and they sold well.

The Tropical Decorative Plant Co. displays in the window a certificate of merit awarded by the Farmers' Club of the American Institute for dried and artificial palms!

Visitors in town: Thos. F. Galvin, Boston; Robert Kift, Philadelphia; Ben Ulam, Pittsburg; G. T. Lambrook, Troy; A. D. Carpenter, Cohoes; M. J Lynch, Poughkeepsie.

Boston.

AN OLD-TIME CHRISTMAS.—A TREMENDOUS FLOWER TRADE.—UNPRECEDENTED HOLIDAY DEMAND.—PLANT TRADE SHOWS MODERATE INCREASE.—GLOIRE DE LORRAINE SCORES A TRIUMPH.—HOLLY REACHES ITS LIMIT.—AN UNWISE PUBLICATION.—A NEW LIGHT.

Christmas trade in Boston had a refreshing snap about it that reminded one of old times and furnished a most convincing proof that in New England, at least, the cut flower retains its pre-eminence as a holiday favorite. And this notwithstanding the publication in the *Transcript*—the family paper—a week beforehand, of one of the most ill-advised and trouble-breeding articles that the local flower trade has had to face for many a day. This we will refer to again, further along.

The plant trade showed a considerable increase over past years and naturally occupied the attention of the florists a good deal during the early part of the week, but the plant business did not develop anything like the prominence noted in some sections, and, while the tendency is unquestionably in the direction of an increasing preference for flowering plants, yet the movement is slow here and the flower growers have no cause for immediate alarm on this line if this year's experience counts for anything.

No doubt the sluggishness of the movement plantward, as compared with New York's experience, is due to the fact that the plants offered here do not compare in variety and perfection with the plants seen there and that the store-keepers make but little effort to present them in any other shape than in plain flower pots as received from the grower. That the public here are not slow to appreciate or unwilling to pay a good price for a meritorious novelty is proven by the sales of Begonia Gloire de Lorraine. From five to fifteen dollars apiece was paid for plants of this novelty and the demand at these prices exceeded the supply. Azaleas did not sell as well as anticipated. Ardisias were best liked in the small sizes. Dracænas moved slowly. Red cyclamens sold rapidly and so did Jerusalem cherries. White cyclamens and Roman hyacinths dragged somewhat. Many small fern pans were disposed of at moderate prices.

The weather on Friday and Saturday was simply lovely and shoppers took full advantage of the opportunity, so rare at Christmas. Flower stores were besieged by crowds. Sales were made quickly, very little made-up work being called for, yet most of the store-keepers were busy far into the night for three successive days and the claim of all that they did the heaviest holiday business in their history seemed well substantiated.

The growers, one and all, are equally jubilant and at the wholesale marts corroborative testimony was abundant. The demand, while it favored certain things—red flowers especially—swallowed up everything in sight and called for much more than could be supplied in some lines and the full prices asked and paid were maintained without a waver till the last. The Cut Flower Market, on Saturday morning, presented a remarkable and unusual sight, being almost impassable with the crowds from the moment of opening, and the enormous quantity of stock carted in by the growers melted away in the liveliest manner. The wholesalers were hustled with local and shipping orders till far into the night and drew on the growers until everything was exhausted. The first freesias of the season were in for Christmas.

Of holly there was just a little too much. Had the inferior grade stuff been kept away, this would not have been so and most of the holly left unsold belonged to this class. Yet it would seem that the limit of holly consumption had been reached this year for the first time in this market and heavier shipments next year are likely to bring disaster to what has been, up to this time, a nice remunerative feature of the holiday trade. The fine weather was held responsible for diverting a certain proportion of the good buyers in this line from the regular flower stores to the cheap stalls at the market, but this cloud had a very silvery lining since the same weather brought out the flower buyers to the last individual.

Some sensational reporter got a lengthy article into the Boston *Transcript*, warning flower buyers that the florists were contemplating to make them pay prices for flowers such as never before, in the history of flower growing, had been quoted. The communication was widely circulated and commented upon by other New England papers and much criticism was the result. A few more such articles will suffice to put the holiday flower industry *hors de combat*. The Springfield *Republican* comments thus: "Even the worm will turn, and if the dizzy flight of prices for Christmas flowers is not checked in some way, an indignant public will be forced to stop buying. Every sensible woman will abet her lover or husband in abandoning flowers for candy, if the flower-growers do not have a care. The eggs are golden, but the producer of them may be only a goose." The Newport, R. I., *News* remarks that a local florist has pasted the *Transcript* clipping in a conspicuous place where it can be shown customers to warn them to confine their flower buying to the home florists.

At the meeting of the Gardeners' and Florists' Club, Tuesday, January 3, 1899, John K. M. L. Farquhar will give an illustrated lecture on "Gardens, Fields and Woods of Japan." Members desiring to have their friends, including ladies, hear Mr. Farquhar's lecture, are urged to invite them to attend. A business meeting will be in order previous to the lecture, at 7:30 o'clock, at which the officers for 1899 will be installed.

George Hollis exhibited a set of eighteen single and double named pelargoniums at the Horticultural Hall last Saturday.

The Park street Flower Market has installed six of the new kerosene-burning Washington lights. They give great light and equal satisfaction.

Chicago.

THE CLOSE OF A VERY GOOD YEAR.—A RESUME OF THE SEASONS.—IT WAS A RECORD BREAKING CHRISTMAS.—FLOWERING PLANTS WERE SCARCE AND IN DEMAND.—AS TOLD BY DEALERS.—VIOLETS, CARNATIONS AND BEAUTIES.—JOTTINGS PERSONAL AND OTHERWISE.

This week brings to an end a year far better for local florists than its predecessor and in many respects the best on record. Trade all through the early spring was good, Easter was excellent, the summer was as active as could be expected and prices held up better than usual; the fall trade was large, chrysanthemums were profitable and the two days before Christmas saw a trade which put a fitting finish on the record of the year. Various wholesalers report Christmas sales as from twenty to 100 per cent ahead of last year. During the past seven days, prices have been stiff and trade brisk.

American Beauties were scarce for the holidays and other good roses not plentiful. During the middle of the Christmas selling period there was an over-stock of carnations, but this was wiped out in the beginning of the rush of Friday, Saturday and Sunday. There were plenty of violets until Friday but from then on there was a scramble for them. Many retailers were unable to fill orders booked for Monday. Prices ruled high throughout the list.

Plants sold readily, particularly well flowered ones, of which few were offered. Azaleas were in great demand, the Simon Mardner taking the lead. Cyclamens and poinsettias were readily exchanged for coin. It seemed that the shortage of flowering plants was not due to lack of effort on the part of the growers, but to that perverseness which made the week's supply of Harrisii less than 100 dozen. Palms, particularly latanias, sold well and the supply of Ficus elastica was exhausted.

E. Wienhoeber, who is a leader among retailers, reports that he served many more customers than usual at Christmas and that his facilities were taxed to the utmost, although he doubts if the aggregate of his sales will exceed last Christmas. He was able to use a few 10 cent carnations to advantage but says that his customers objected to the stiff prices, particularly on Beauties. He found no great sale for decorative plants but states that he could have used well flowered ones profitably had they been procurable, but probably at the expense of the cut flowers.

George Witthold enjoyed a splendid wholesale trade in palms all through December and in the week before Christmas did the best retail business he has ever had. He was lavish with his green in decorating his own establishments. Henry Wittbold has been ill most of the winter but is now improving.

W. J. Smyth, who handles the Oconomowoc violets, sold 8,000 of Sylvester's fancy flowers in the week preceding Christmas and on Monday found himself short nearly 1,000 and was compelled to join in the down town strife for good blooms. He reports a very fine holiday trade, with a marked tendency on the part of gift buyers to purchase flowering plants.

Mr. Weiland's Evanston, a bright red sport from Tidal Wave, has two warm and influential friends in E. E. Pieser and Peter Reinberg, who esteem it highly.

The Burlington Route, which has spent $5,000 annually with local florists, will shortly erect greenhouses at Aurora, Ill., in which to grow flowers to supply its dining cars.

Mr. Peterson, who has a stand at A. G. Prince & Co.'s had an overcoat stolen Friday from which a few moments previous he had removed a package containing $200.

The Albion Floral Company has retired after three months business at Cottage Grove avenue near Thirty-fifth street.

The University of Chicago will establish greenhouses for scientific purposes upon the roof of the Hull Botany building.

H. C. Rowe, formerly with the Anderson Floral Company, is now with the Klunder-Thiele Company.

Archie Spencer, manager for Reinberg Bros., was a St. Louis visitor this week.

John Wilson, Oshkosh, Wis., was a holiday visitor

BROCKTON, MASS.—The fortnightly meeting of the Brockton Florists' Club was held on the evening of December 20 with a good number in attendance. The report of the committee on the late exhibition was considered very favorable. Chas. A. Leach, Thos. Greaves and A. S. Crawford were appointed a committee to inspect without previous notice, the greenhouses in the district and report with recommendations for such improvement as they may be able to suggest. It was announced that John Farquhar would give a lecture before the club some time in January.

TORONTO, ONT.—Fire early on the morning of December 18 did considerable damage in Horticultural Hall

THE AMERICAN FLORIST

Subscription, $1.00 a year. To Europe, $2.00. Subscriptions accepted only from those in the trade.

Advertisements on all except cover pages, 10 Cents a Line, Agate, $1.00 per inch. Cash with Order.

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Cover space sold only on yearly contract at $1.00 per inch, net, in the case of the two front pages, regular discounts applying only to the back pages.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

NOW for Easter, which next year falls on April 2.

WE wish all in the trade a happy and prosperous New Year.

HAVE you renewed your subscription? If not, please do so now.

PLACE one of those memo-calendar pads for 1899 on your desk and enter notes of coming work as they occur to you.

THERE have recently been large exportations of Brassavola Digbyana and Epidendrum Stamfordianum from Honduras.

HEAVY firing in severe weather may bring about serious loss if your premises are not insured in the Florists' Mutual Fire Insurance Co.

A PROMINENT grower advises that care be taken to avoid wetting the flowers of Acalypha Sanderi. The flowers will not turn brown if this rule be carefully followed.

AT THE Paris exposition in 1900 there will be a series of horticultural exhibitions, four general and eight special, the last, on October 23, to be devoted to chrysanthemums.

AN ENGLISH pointer in greenhouse construction is shown in the form of a wall plate of cement instead of wood, of course, on brick walls. The cement is Portland and worked in much the same way as for cement sidewalks. This should be a cheap and practically indestructible wall plate.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

John Cook, Baltimore, Md., registers seedling rose "Baltimore," a cross between Rivoir and Mary Fitzwilliam, a very large, fragrant flower, color Daybreak pink, deepening toward center; stem and foliage very large and strong as shown in blooms submitted.

WM. J. STEWART, Secretary.

Wholesale Prices on Postal Cards.

ED. AM. FLORIST:—We are, indeed, glad to see the article by P. H. Therkildson, Ironton, O., on this subject in your last issue. He evidently knows by experience the great injury this practice of sending wholesale prices on postal cards works upon the florist in smaller cities, where not only the post-office employes, but all their friends, have knowledge of wholesale prices, and that before the florist himself, unless he is on hand when the mail is distributed. We hope that other dealers in small places will enter their protest against this practice and thereby cause it to be stopped. S. H. B.

Greenhouse Building.

Des Moines, Ia.—I. W. Lozier, conservatory.

Owatonna, Minn.—Lord & Johnson, 5000 feet of glass.

Catalogues and Cut Flower Price Lists Received.

F. Barteldes & Co., Lawrence Kas., garden seeds; California Nursery Co., Niles, Calif., trees and shrubs; Rosedale Nurseries, Brenham, Texas, trees and roses; A. T. Ferrell & Co., Saginaw, Mich., seed cleaners; Chr. Lorenz, Erfurt, Germany, seeds and plants; W. A. McFadden, Cincinnati, Ohio, cut flowers.

Publications Received.

VEGETABLE CULTURE.—By John M. Fitch.—Kansas Seed House (F. Barteldes & Co.), Lawrence. Kans.

REPORT OF THE SECRETARY OF AGRICULTURE.—Department of Agriculture, Washington, D. C.

TESTS OF STRAWBERRIES, RASPBERRIES, ETC.—By James Troop.—Purdue Univ. Exp. Sta., La Fayette, Ind.

A NATIVE BEDDING PLANT.—By J. C. Arthur.—Purdue Univ. Exp. Sta. In this attention is called to the native Cerastium arvense oblongifolium as a desirable white-flowered bedding plant.

Elk's Head Design.

We are in receipt of a colored photograph from Gustav Ludwig, of Allegheny, Pa., showing a very realistic elk's head in immortelles, sheet moss and cape flowers, designed by Mr. Ludwig for the memorial services of Allegheny Lodge, No. 339, B. P. O. Elks. The head proper was secured to a panel some six feet in height and displayed on an easel which occupied a prominent position on the stage of the theatre in which the services were held. The immortelles were fastened individually, thus insuring a smooth and even surface. The piece is said to have been most effective, and even in the photograph its huge proportions are evident, while the color arrangement is both tasteful and suggestive.

Facts vs. Theory in the Ice Chest Question.

ED. AM. FLORIST:—Among the wonderful statements from the Battles booklet, furnished the AMERICAN FLORIST of December 17 by G. C. Watson "for the benefit of your readers," are the following remarkable theories: "We wish particularly to emphasize the fact that flowers, to give satisfaction, should not be kept on ice. A large, handsome ice chest is an evidence of weakness rather than of strength."

The *fact* is that no florist keeps flowers on ice, and the florists will not be disturbed by any such theory, although customers may. Where "a large, handsome ice chest" would fill a florist's store, he may be obliged to use a cellar or pavement vault for flowers; but he may be ignorant of the facts that cut flowers require air as well as growing plants, that carbonic acid and other deleterious gases settle to such vaults and sicken the flowers, although perhaps not noticed, and that sick flowers do not give satisfaction. Every florist knows, although customers may not, that the same temperature is required to keep flowers properly in "a large, handsome ice chest" as in a vault, but every florist does not seem to know that "a large, handsome ice chest" may keep flowers in a healthier condition on account of the purer air.

The *fact* is that vaults have been abandoned for that very reason, and in one instance, at least, instead of an evidence of weakness, a strong yearly increase in business has been the result. There is, however, another gas of which florists should be warned, as injurious to the sale of flowers. It may be called natural gas—not the coal oil natural gas that comes out of the ground, but a gas that appears to orginate in the brain of the afflicted. It is often accompanied by a disease called swelled head. One exemplification of this occured lately in Philadelphia, a gentleman changing his florist to get more flowers, less gas.

PRO BONO PUBLICO.

Tokens of the New Year.

That of I. W. Lozier, Des Moines, Ia., comes to us in the form of a neat blotter with appropriate admonitions to prospective purchasers of floral designs and cut flowers.

John Breitmeyer & Sons, of Detroit, send the compliments of the season with a pretty folding calendar for 1899, illuminated with a colored spray of flowers and foliage of a pink form of the Chinese primrose.

The Syndicate des Cultivateurs d' Oignons a Fleurs at Ollioules, France, wish us "A Happy New Year," and employ for the purpose an elaborate picture showing colored figures of various bulbous flowers, half tone group of numerous heads of departments, with a calendar attachment.

Philadelphia.

LOOKING BACKWARD.—A GLANCE AT THE EXPERIENCES OF A GOOD CHRISTMAS.—PLANT SALES VERY HEAVY BUT SUPPLY SHORT.—THE CUT FLOWER MARKET.

From the florists' standpoint it was a good Christmas. The weather was fine for delivering goods and it makes a great difference whether plants can be delivered as they are sold or have to be wrapped up. Foliage and flowering plants have entered so into the Christmas trade the past few years that they are a strong factor and more care and attention should be given to their culture. Well flowered cyclamens are sure sellers but I will venture to say that there was not one dozen plants that would sell on sight to be had in this city ready at the hour. What they will be two weeks hence is nothing; their best market is gone. Dwarf poinsettias, one in a four-inch pot or several in small pans, are good stock and the few placed on sale were quickly taken. Hundreds more "might have been" sold, but the growers were appealed to in vain.

Azaleas sold very well, particularly the bright Simon Mardner. Harris and Becker had a nice lot of plants at from $1.50 to $2.50 each. An attempt to make large plants out of several small ones placed together in one pot succeeded fairly well. Linum flavum, the yellow flax, is pretty one day but nothing the next, as by that time all the flowers are gone and something else has to be substituted for the plant set aside to be delivered Christmas day. He is a wise florist who convinces his customers that it is better to send plants selected home at once, as the last day is enough of itself without carrying others into it. Good primulas sold well and, while not a high priced plant, they fit in nicely and give variety. Dracæna terminalis, with its bright cen-

ter leaves, sold very well. Robert Craig had a fine stock and sold well out, shipping plants by the hundred to Boston, New York, Baltimore and other cities. Other foilage plants and palms sold fairly well although the preference was for plants with bright foliage or flowers.

Of course there was a great demand for cut flowers and I believe that all the good and fairly good stock was sold at about the same prices as prevailed last year. It seemed there was more than the expected quantity of "salted" stock. Beauties were better in this respect than other roses, they being for the most part of a good color, but the Bridesmaids had lost their blush and were a sorry looking lot. It was astonishing what a lot of work the growers had to do at home through the day as it was evening before many found time to bring their stock in, and then it looked so much better under the artificial light.

Carnations went to sleep very quickly and showed much evidence of having been kept too long on the plants. It is very aggravating to a dealer to find jar after jar of carnations that cost four to eight dollars per hundred one day going to sleep the next before he can get his orders out.

The volume of business is variously estimated at from one-fifth to one-third greater than that of last year. All report having done a good and satisfactory trade and with rather more profit than usual on account of the stock being so well cleaned up.

The Pennsylvania Horticultural Society, at the recent annual meeting, elected officers for the ensuing year as follows: President, James M. Rhodes, Ardmore; vice-presidents, Robert Craig, George Goebel, Henry F. Michell and John McCleary; treasurer, W. F. Dreer; secretary, David Rust; botanist, Thomas Meehan; horticultural chemist, Dr. Persifor Frazer; entomologist, Rev. H. C. McCook, D. D.; executive council, Edwin Lonsdale, J. Cheston Morris, M. D.; Mr. Westcott, W. K. Harris, John Thacher, Moses Paxson and Chester Davis. K.

Cleveland.

A SATISFACTORY BUSINESS AT THE TRYING HOLIDAY PERIOD.—SERIOUS SHORTAGE OF CARNATIONS, VIOLETS AND BOUQUET GREEN.—GREAT INCREASE IN THE CALL FOR FLOWERING PLANTS. — AZALEAS TAKE THE LEAD.

Well, Christmas is over and with it the most anxious holiday for the florist in the entire year, for among the blows that are landed on that day, either by irate customers or faithless wholesale men, there are sure to be a few that "almost kill father."

On the whole, however, the local talent is well pleased with the Christmas trade. Cut flowers of pretty much all kinds sold well, and at prices up to the last few years. This is particularly true of carnations and violets, the flower buying public having turned its longing eye upon them with more avidity even than last year. Of violets there were not nearly enough to go around. They sold at good prices, averaging about $3 a hundred for fine ones. Carnations, which for some reason have been rather short nearly all the season, were extremely hard to get for a week previous to Christmas. All fall the growers have been complaining that the plants, although looking as well as usual, have not been up to their usual standard of productiveness. As a result hardly any could be laid in in advance and the supply was all sold long before Saturday was over. It is quite impossible to guess how many more could have been used were they available. Red carnations were practically unknown, the demand for that color predominating in every other kind of flower as well. Many florists refused to accept orders for straight colors in carnations, either using mixed colors, or using whatever shade they could get the most of.

A feature of the business was the steadily increasing demand for flowering plants. Azaleas, of course, led and quite a good many were in the hands of the different florists. Deutsche Perle predominated, with a liberal sprinkling of Vervæneana and a few Simon Mardner. Anything that was at all good in azaleas sold well. There was a good call for primulas, cyclamens, Begonia incarnata, or any other good flowering plant, more especially if it were colored.

The demand for immortelle wreaths and other designs was notable. Wild smilax, holly, laurel wreathing and other greens sold well. Ground pine was scarce and much more could have been used had it been obtainable. A.

Des Moines, Ia.

I. W. Lozier is completely remodeling the store at 408 East Sixth street and will fit it up in a thoroughly modern style for a down town store under the management of Alfred G. Lozier, son of the proprietor. A large conservatory will be added and the establishment will be not only the best thing of the kind in the city but one of the finest in Iowa.

Lozier finds business very brisk. He now has seven houses at 1310–1312 East Thirteenth street, three new structure 25x75, for carnations, chrysanthemums and palms, having been added during the past season. Mr. Lozier reports a splendid fall season in his city and is confident that 1899 will be a year of prosperity for Des Moines.

OBITUARY.

MRS. GEORGE SMITH.

The wife of George Smith, 5 Peckham street, Fall River, Mass., died December 21, making his Christmas and that of his family, a most sad one. At the obsequies there were many floral tokens of the esteem in which Mrs. Smith was held among those in the trade and others outside its ranks.

JOHN S. HINNERSHOTS.

Dr. John S. Hinnershots died Dec. 24 at his residence, 113 South Fifth street, Reading, Pa., of spine disease, aged 57 years. Deceased was ailing for the last ten years. He conducted a cut flower business and greenhouse at his residence and at Oakbrook. Besides his second wife, he leaves one son, John. Deceased was born in Alsace township and resided in Reading for over twenty years. He graduated from the University of Pennsylvania and then opened an office in St. Lawrence, where he practiced medicine for a year, after which he moved to Reading. For the last ten years he relinquished his profession and devoted his time to his greenhouses, known as the Sunnyside Greenhouses, near the Kurtz house.

LINCOLN, NEB.—A. A. Hunter is making some successful experiments in growing mushrooms under the benches in his greenhouses.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By a young man as assistant florist; 3 years' experience. Address GROHMAN BROS., 317 Fitzhugh St., Saginaw, E. S., Mich.

SITUATION WANTED—By an experienced rose grower, age 30, single, for wholesale trade. Ohio or Pennsylvania preferred. ROSE, care Am. Florist.

SITUATION WANTED—As foreman by first-class all-round man, age 37, single; private or commercial. Refs. first-class. EXPERIENCE, care Am. Florist.

SITUATION WANTED—By florist, 23 years' experience in roses, carnations and general stock; married, sober. Good references. E W, care Am. Florist.

SITUATON WANTED—A rose grower for Beauties, Teas, 'mums, etc., bulbous stock, cuttings. City references, married. V. P. RASMUSSEN, 201 Hervey St., Chicago.

SITUATION WANTED—By man 23 years old, single; 7 years' experience in large establishment where all sorts of stock is raised. Address W T A, care American Florist.

SITUATION WANTED—By rose and all-round grower, German; single, 4 years in the country. Could not go far from Chicago. No references. G M 300, care American Florist.

SITUATION WANTED—As foreman by a successful rose grower and general plantsman; 20 years' experience, sober, married, age 37. References. Address D M, care American Florist, Chicago.

SITUATION WANTED—1st or second gardener for exotic plants, roses, 'mums, hothouse, lawn. Good references, married. Address V. P. RASMUSSEN, 201 Hervey St., Chicago.

WANTED—Salesmen to sell flower pots as a side line on commission. CAMBRIDGE TILE M'F'G CO., Covington, Ky.

WANTED—Two handy, quick young men of good character and some experience. Write, stating wages expected, etc. A. DONAGHUE, Omaha, Neb.

WANTED—Two young men to assist in general greenhouse work. Address, stating wages, board, etc, POEHLMANN BROS., Morton Grove, Ill.

WANTED AT ONCE—A good all-round florist, one who knows how and is willing to work. State lowest wages with board and lodging. W. H. WRIGHT, 204 1st East St., Vicksburg, Miss

WANTED—No. 1 grower of roses and carnations to take charge of a block of houses as second foreman on a large commercial place; must be up to-date grower; married man preferred. Steady job to right man and a good opening; would prefer a Chicago man or from that region. Wages, $12.00 per week. Address F, care American Florist.

FOR SALE—One No 17 Hitchings hot water boiler in first-class condition, with 1,500 feet of cast iron piping and fittings. Make me an offer. M. Helfrich, New Holland, O.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

FOR SALE OR RENT—Three greenhouses well stocked with roses, carnations and general greenhouse plants; plenty of water and in one of the best cities in Iowa. Correspondence solicited. Address FLORIST, 1721 N. Story St., Boone, Ia.

WANTED.

Two or three men used to propagating roses and carnations.....

BASSETT & WASHBURN,
Hinsdale, Ill.

FOR SALE.

A well established and paying florist's business, with 10 to 30 acres of land, 17,000 square feet of glass. Good residence and houses for help. Situated near one of the largest cities in California. Ill health and desire to retire from business cause for selling. For full particulars address

LOCK BOX 720. Los Angeles, Cal.

FOR SALE AT A BARGAIN.

Nine (9) greenhouses, about 21,000 feet of glass, well stocked with Roses and Carnations in first-class condition, also large stock of Bedding Plants; houses heated with steam, a new boiler; one heavy wagon and one spring wagon. Also 2½ acres of land, or 14 lots. In a flourishing town of 8000 inhabitants, situated in central Ohio; no competition. Part cash; the rest on first and second mortgage. Address

GREENHOUSES, care Am. Florist.

Cincinnati.

CHRISTMAS TRADE. — PLANTS AT THE FLOWER MARKET.—FRUIT CAKE FOR WHOLESALERS.—A NEW BOY AT ALLEN'S.

The store men report an increase of ten to fifteen per cent in Christmas sales, while the wholesale houses report an unusually large trade, an increase of twenty-five per cent. Never before was holly and other green so closely used up as it was this Christmas.

The Sixth street flower market on Saturday was well stocked with choice plants and judging from the plants carried away, the boys must have done a good business Azaleas were rather scarce; cyclamens met with ready sale, as did primulas, palms and ferns.

Miss Cronan, of the Covington Floral Co., remembered the boys at the wholesale houses with a delicious fruit cake tastefully put up and tied at both ends with a bow of silk ribbon. Frank Ball said it was the best cake he ever ate.

Mrs. James Allen presented her husband with a bouncing baby boy Christmas week. H. SCHWARZ.

Syracuse, N. Y.

The annual meeting of the Central New York Horticultural Society was held in the rooms of the Chamber of Commerce Dec. 22, and despite the fact that many members were engaged in preparing for the holidays there was a good attendance. The rooms were beautifully decorated with greens, fruit and rare tropical plants, which were arranged under the direction of President S. T. Betts, who presented a very comprehensive report outlining the work of the society for the past year.

Treasurer F. H. Ebling's report showed the society's income for the year to have been $913.30, of which $629.95 was show receipts, and disbursements of $908.85, of which $861.05 was exhibition expenses.

The nominating committee, of which C. A. Phillips was chairman, made the following report, which was unanimously adopted:

President—S. T. Betts.

Vice-Presidents—Alan C. Forbes, A. D. Perry, M. E. Driscoll, E. A. Powell, A. C. Chase, C. W. Snow.

Secretary—N. H. Chapman.

Treasurer—David Campbell.

Executive board—L. E. Marquisee, C. A. Phillips, George Ham, Philip Kay, F. H. Ebeling and John T. Roberts.

Mr. Betts and Mr. Campbell both wished to retire from office and said so, but the members could not think of it.

CLINTON, IA.—The J. R. Bather greenhouses have been equipped with a new tubular boiler and increased radiation.

POUGHKEEPSIE, N. Y.—The annual meeting of the Dutchess County Horticultural Society will be held at the Y. M. C. A. rooms on Thursday, Jan. 5, at 1:30 p. m. The annual dinner will be served at Masonic Temple on the same evening at 6 o'clock. The usual good time is promised.

INDIANAPOLIS, IND.—The annual meeting of the State Florists' Association will take place in this city January 9 at the State house. In connection with the meeting an exhibition will be held and certificates of merit awarded. It is very important for the welfare of the association that both the meeting and exhibition are well attended. H. J.

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Wholesale Flower Markets

CINCINNATI, Dec. 29.

Roses, Beauties, select	40 00@75 00
" Brides, Bridesmaids	12.00
" Meteors	12.00
" Morgans	10 00
Carnations	3 00@ 6 00
Violets	2 00
Lily of the valley	4 00@ 5 00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00
Narcissi, Roman Hyacinths	3.00@ 4 00

ST. LOUIS, Dec. 29

Roses, Beauties	15 00@100 00
" Brides, Bridesmaids, Meteors	8.00@18 00
" Perles	6.00@12.00
Carnations	3.00@ 6.00
Smilax	15.00
Adiantum	1.00
Asparagus	40.00@50 00
Violets, California	2.00
" single	60
Roman hyacinths	4.00
Narcissus, Paper White	5.00
Callas	18 00@20 00
Valley	5.00

MILWAUKEE, Dec. 29.

Roses, Beauties, long.. per doz.	15 00@18 00
" " medium " "	6 00@ 9.00
" " short " "	3 00@ 5 00
" Brides, Bridesmaids	12 00@18 00
" Perles	12 00@18 00
" Meteors	12 00@18 00
" Kaiserins	12 00@18 00
Carnations, fancy	5 00@ 6 00
" good stock	3 00@ 4 00
Smilax	12 00@18 00
Adiantum	.75@ 1 00
Asparagus	75 00
Violets	2 00@ 2.50
Callas	15.00@18 00
Stevias	2 00@ 3 00
Romans, Paper Whites	3.00@ 4 00

PITTSBURG, Dec. 29.

Roses, Beauties	15 00@100 00
" Brides, Bridesmaids	6.00@18.00
" Meteors	8.00@20.00
" Kaiserins	10 00@20.00
" Niphetos, Perles	5 00@ 8 00
Carnations, short stems	1 25@ 2 00
" long "	3 00@ 7.00
Chrysanthemums	10 00@30.00
Violets	1 50@ 3 50
Lily of the valley	4 00@ 5.00
Smilax	15 00@20 00
Adiantum	1.00@ 1 25
Asparagus	50 00@75.00

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Harrisii	$15 to $20.00
Valley	5.00
Roman Hyacinths	3 to 4 00
Paper White Narcissus	3 to 4 00
Cypripediums	15 to 20.00
Cattleyas	50.00

	Per 100
Am Beauties	$15 to $75.00
Brides, Bridesmaids, Meteors	8 to 10.00
Perles	5 to 7.00
Carnations, ass't	2 to 3.00
Carnations, fancy	5 to 6.00
Asparagus, per string, 50c	
Smilax	12.50
Violets	1.50 to 2.00
Common Ferns, per 1000, 1.50	.20
Adiantum	75c to 1 00
Galax Leaves... $1.50 per 1000	.20
Stevia	2 00

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Extra long stem	per doz.,	$10.00
24-in. stem	"	7.00
20 "	"	5.00
15 "	"	3.50
12 "	"	2.50
8 "	"	1 00
METEOR	per 100,	8.00 to 10.00
BRIDESMAID	"	8.00 to 10.00
BRIDE	"	8.00 to 10.00
PERLE	"	6.00 to 8.00
CARNATIONS	"	3.00
" fancy	"	4.00

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Wholesale Flower Markets

CHICAGO. Dec. 30.

Roses, Beauties, extra long, per doz	10 00
" " 24 inch " "	7 00
" " 20 " " "	5 00
" " 15 " " "	3 50
" " 12 " " "	2 50
" " 8 " " "	1 00
" Brides	8 00@ 10 00
" Kaiserins	6.00@ 12.00
" Bridesmaids	8 00@ 10.00
" Perles	6 00@ 8.00
" Meteors	8.00@10.00
Carnations	3 00
" fancy	4 00
Lily of the valley	4.00@ 6 00
Adiantum	1 00
Common ferns	20
Smilax	12.00
Asparagus	50.00@100.00
Violets	1 50@ 2 50
Romans, Paper Whites	3.00@ 4 00
Callas	8 00@10 00
Harrisii	20 00@25 00
Poinsettias	3.00@ 5 00
Cattleyas per doz.,	$6 00
Cypripediums "	2 00

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PHILADELPHIA, Dec. 28.

Roses, Teas	12.00@15.00
" " extra	15.00@25.00
" Beauties, extra	100.00@130.00
" " firsts	75.00@100.00
" " seconds	50.00@75.00
Carnations	3.00@ 6.00
Lily of the valley	4.00@ 6.00
Asparagus plumosus	50.00
" Sprengerii per bunch .50@ .75	
Smilax	15.00@20.00
Violets, double	2.00
Narcissi, Roman Hyacinths	4.00@ 5.00

BOSTON, Dec. 28.

Roses, Beauties, best	50.00@75.00
" " medium	25.00@40.00
" " culls	5.00@10.00
" Meteors	6.00@15.00
" Brides, Bridesmaids	6.00@15.00
Carnations	2.00@ 5.00
Lily of the valley	3.00@ 4.00
Violets	1.00@ 2.00
Lilies	12.00@15.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	.75@ 1.00

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408 E. 34th Street,

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Telephone 1054-38.

Wholesale Flower Markets

NEW YORK, Dec. 28.

Roses, Beauties select	25.00@60.00
" " medium	15.00@20.00
" " culls	5.00@10.00
" Bridesmaids, Brides	4.00@10.00
" Meteor	6.00@15.00
Carnations	2.00@3.00
" fancy	4.00@6.00
Violets	1.00@2.00
Lily of the valley	3.00@4.00
Roman Hyacinths, Narcissi	1.00@2.00
Harrisii	12.00@15.00
Cattleyas	35.00@50.00
Cypripediums	6.00@10.00
Smilax	10.00@12.00
Asparagus	40.00@50.00
Adiantum	.50@.75

BUFFALO, Dec 29.

Roses, Beauties	10.00@50.00
" Brides, Bridesmaids	10.00@20.00
" Meteors	10.00@20.00
" Perles, Niphetos	7.00@10.00
" Kaiserins	12.00@20.00
Carnations, ordinary	1.50@2.50
" fancies	4.00@5.00
Lily of the valley	4.00@5.00
Smilax	12.00@15.00
Adiantum	1.00@1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	1.50@3.00
Chrysanthemums	4.00@20.00
Romans	3.00@4.00

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BRIDES

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ADVANCE copies of retail seed lists for 1899 are at a premium just now.

SWEET PEAS are in good demand but not at the prices anticipated in the early fall days.

IN nearly all items the flower seed crop is a good one; aster seed turned out somewhat short.

NEW YORK.—W. A. Prosser, of Vaughan's Seed Store, received a rare and valuable present on Christmas night. It is a daughter and her equal is not to be found in all Brooklyn, so Mr. Prosser asserts.

ONION, BEAN AND SPINACH seed prices are the items which the seedsman first looks up when he gets a copy of a '99 catalogue, even before he reads the supreme effort of his fellow seedsman—the introductory pages in which he tells the recipient that he is making a great mistake by buying his seeds elsewhere. And, as was to be expected, these prices vary greatly. What is the reason catalogues are not coming in livelier?

The Use and Construction of Greenhouses for Horticulturists.

[*Abstract of a paper read by Prof. L. R. Taft, Agricultural College, Mich., at the meeting of the Missouri State Horticultural Society.*]

During the past ten or fifteen years, not only has there been a marked change in the methods of building greenhouses, but there has been a great increase in their use. This increase has been quite large in the neighborhood of large cities, but there has been a greater amount of building in the vicinity of small towns, and, even in sections remote from settled communities, improved means of transportation making it possible for growers of flowers and vegetables to locate where they can secure cheap land and fuel, from which points the products are often shipped hundreds of miles. In other states many farmers and fruit growers, whose time is occupied during the summer months with their orchards and farm crops, have erected extensive ranges of greenhouses, which, during the winter months, are used for the production of vegetables and cut flowers, and as the owners become specialists, they not only find the work remunerative, but are thus able to occupy the portion of the year which is not required for their other pursuits. With the cheap fuel, clear sky and comparatively short and mild winters, there is no reason why similar establishments will not prove even more satisfactory in Missouri. For such a purpose the form of house best suited is the even span; this should be not less than twenty feet in width and of any desired length. If several houses are erected they may be placed side by side, with division walls in common, but for most crops the extra expense will be more than repaid by the benefits that will be derived when the houses are placed far enough apart to prevent the shading of one house by its neighbor, as well as from the light and ventilation that can be secured through the side walls. For roses, however, the three-quarter-span roof is generally preferred, while in sections where a slight slope to the south can be secured, a wide sidehill house will be found adapted to the growing of vegetables, carnations, violets, etc., and it will, in addition, be of comparatively cheap construction.

While the modern, iron frame construction is in many ways desirable and will often, in the long run, prove most economical, the increased first cost will prevent it from being commonly adopted for the ordinary greenhouse purposes. The iron frame house may be raised upon a brick foundation, or iron posts may be set in the ground to which the side posts can be attached. Iron rafters are placed every seven or eight feet and connecting them are plates, purlins, and a ridge upon which the sash bars rest. With this form of construction much lighter sash bars can be used than in wooden houses, as nearly all the strain and weight of the roof is borne by the iron posts and rafters. The house will also be much more durable, as the portions that are first to decay in a wooden house have been replaced by iron. When wooden houses are used, posts of cedar or cypress should be set at intervals of from four to six feet. The height will depend somewhat upon the crops to be grown and whether there is to be glass in the side walls. In the former case four feet will be ample, while in the latter four and one-half to five feet will be none too much. The walls can be formed of sheathing and a block siding; with a double thickness of building paper between. If ventilating sash is to be placed in the side walls, there should be a sash sill arranged for them to close upon. Various forms of plates may be used, but they should be so arranged that they will provide a firm bearing for the sash bars and for the running off of the water upon the inside, as well as on the outside of the house. In wooden framed houses rafters are now seldom used, the usual plan being to depend entirely upon sash bars which rest upon one or more lines of gas pipe, or similar purlins. The usual size of the sash bar is about one and one-fourth by two and one half inches, and drip gutters in the sash bars are desirable. One and sometimes two continuous lines of ventilators at the ridge should be provided and connected with shafting so that a line fifty to one hundred feet in length may be worked with one machine. In houses twenty feet wide, if a single row of ventilating sash is used, it should be from thirty to thirty-six inches wide, while if there are two rows they should vary from twenty-four to thirty inches, according to the kind of crops to be grown.

For most purposes it is desirable to use glass at least 14x18 inches, and for roses 16x24 will be none too much. In setting the glass a good grade of putty or mastica is used under the panes. If it is to be lapped, it is held in place by means of zinc points or brads. For many purposes, however, butted glass is preferred, the size generally being 16x16. The square form is desirable, as it permits of the turning of the panes so as to secure a perfect union between them. When the glass is butted it is customary to use wooden caps over the sash bars which are screwed down upon the panes. This makes a warm and water-tight joint and permits the ready resetting of broken panes. In three-quarter-span houses the south wall should be about the same height as the walls of an even-span-house, but the north wall should be about one-half higher if the long-span-to-the-south construction is used, but both walls may be of the same height when the short span-to-the-south house is used. The usual height of the ridge in a house twenty feet wide, is seven feet above the walls, except in a long-span-to-the-south in which the distance from the level of the south wall to the ridge is measured and the ridge is so situated that the sash bars on the south side will be twice as long as those upon the north.

Either raised benches or solid beds may be used, the former being the most commonly employed for flowers and the latter for vegetables. In the construction of the raised benches it is desirable to use either gas pipe or angle iron for the supports, although if constructed of wood they will last a long time when supported upon bricks or cedar blocks. In order to secure proper drainage, there should be cracks of one-half inch to one inch between the boards used for the bottoms of the benches. In some cases tile or slate bottoms are used and with an iron framework will form a very durable bench. The former practice was to place narrow benches along the side walls, with one or more wide benches in the center of the house, separated by walks, but in order to bring the benches into the more desirable parts of the house, the plan of having walks along the side of the house, and of arranging for three or four beds from four to five feet in width, separated by walks twenty to twenty-four inches wide, has been adopted. With solid beds a similar arrangement has been followed, except that the beds are somewhat wider, although seven feet is the usual maximum for violets and carnations. The height of the solid beds is determined by the kind of crop to be grown and the distance to the glass. The same care is required as with raised benches to secure good drainage. This is generally done by filling in with broken brick and similar material, and covering with eight inches of prepared soil. Where sub-irrigation is to be used, the bottoms of the beds or benches are made practically water-tight, and one or two lines of drain tile are placed lengthwise of the houses. The water is turned in at one end through a hose and, filling the tile, makes its way out through the joints. In three-quarter-span houses with a long slope to the south, the benches are placed at different levels, something like steps, so that those upon the north side will not be shaded, and will not be too far from the glass.

For heating small ranges of greenhouses, some of the cast iron hot water boilers, although they are comparatively high-priced, will prove satisfactory and economical, as they will be more durable than wrought iron boilers, especially if the latter are made in the form of box coils from gas pipes. The joints of the latter being screwed together will expose more or less of the threads, and as a result, may not last more than two or three years, although with heavy pipes the life of the coil boiler may be seven or eight years, if care is taken not to have any of the threads exposed. For larger ranges in which either hot water or steam are used, tubular boilers may be employed and will give satisfaction, especially if, when used for hot water heating, the entire shell is filled with tubes. Although the tubes are made of wrought iron they are thicker than those commonly used for coil boilers, and the tubes being riveted, rather than screwed into the boiler heads, will be quite durable. Although not to be recommended for very small ranges, a considerable saving in the amount of pipe required for radiating surface in the houses can be made if the system is carried under pressure, and there is hardly any limit to the size of the plant in which hot water under pressure may be used, although many florists pre-

fer steam for ranges of a size that will make the use of a night fireman desirable. While it will require rather more attention than a hot water system, steam as a method of heating greenhouses has some advantages.

For ranges of houses with less than 10,000 square feet of glass, only one heater will be desirable, but, if the amount exceeds this, two or more should be employed. The heaters should then be so arranged that any of them can be cut out of the system in case of accident or for the purpose of making repairs. Having more than one heater, under such conditions, will oftentimes prevent serious loss. During the fall and spring months only one heater will be required, the others being held in reserve for use in severe weather in winter, or in case of accident. During the past twenty years there has been a gradual change in the kind of pipe used for heating greenhouses. Instead of the old-fashioned, four-inch cast iron pipe, wrought iron pipes from one and one-half to two inches in diameter are now used for the coils. In some cases the coils include both the flow and return pipes, but more commonly the water is carried to the farther end of the house in one or more pipes of a somewhat larger size, which are there connected with the returns. Although larger pipes are occasionally used, the ordinary size for the flow pipes is either two or two and one-half inches, the former being used for coils containing about 200 square feet of radiation, while the latter will supply 350 feet. When the heater can be sunk so as to be below the level of the greenhouse floor, a fairly good circulation can be secured with all of the pipes under the benches, but better results can be obtained when the flow pipes are carried as high as possible, and the use of overhead flows becomes almost necessary where it is not possible to lower the heater. One or two of the flows can be carried upon the rows of purlin or ridge posts, and others if necessary upon the walls.

The radiation supplied by the returns will be rather more effective when arranged in horizontal coils than when the pipes are placed one above the other, but from the fact that when the coils, in whole or in part, are carried upon the posts of the side walls, they are out of the way, the vertical coil is often used. While good results will be secured whether the flow pipes are carried with an upward or downward slope, the downhill system if anything seems to be preferable. The slope should be merely enough to free the pipes of air, for which purpose an outlet must be provided at the highest point. It is an excellent plan, especially when the closed system is used, to connect each flow pipe, or the highest point of the common system, with the expansion tank. The returns should always be laid with a slight slope toward the boiler, but if the larger sized pipes are used and are properly supported, this need not be more than one inch in twenty feet, the object being to carry the pipes as high as possible and at the same time have sufficient slope to permit the air to escape.

The arrangement of the pipes where steam is used is quite similar to that in a hot water system, the principal difference being that the size of both flow and return pipes is smaller. The return pipes need not be larger than one and one-fourth inches and, in small houses, very good results can be obtained with one-inch pipes, while, as a rule, a two-inch supply pipe will answer for a house 20x100 feet, except where high temperatures are desired. In the steam system there should be an automatic air valve at the lower end of each of the coils, and, for controlling the heat, valves are necessary upon both the supply and drip pipes, while in the hot water system only one valve is necessary, although two will be desirable in case there should be occasion at any time to cut off the coil in order to make repairs upon it. In the steam coils it is also well to have several of the pipes provided with valves in order that one or more of them may be cut off to control the heat.

In estimating the amount of radiating surface that will be required, it is customary to estimate that one square foot of pipe will be sufficient for one square foot of glass, if the house is to be carried at 60° with hot water, and that it will answer for four or five if 50° or 40° respectively, are required. With steam heat, one foot of radiating surface will be ample for five and one-half square feet of glass, in houses to be heated to 60°, seven and one-half if 50° is to be maintained, while only one foot of radiation to nine square feet of glass will be required in houses that are to be heated to 40°. The above figures will be found substantially correct in sections where the usual winter temperature does not drop below zero, and where the houses are well built and with a comparatively small amount of exposed wall surface. Where the temperature drops much below zero, or where the construction of the house makes it difficult to heat, they will need to be slightly modified.



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NURSERYMEN and florists within twelve miles of London pay from £12 to £15, $60 to $75, rent per acre for the land they occupy.

ORCHARDISTS in Tasmania are subject to a fine if they neglect to bandage their trees to keep down codlin moth or fail to destroy infested fruit.

FAVORABLE reports are coming from all the northern states upon the Morello and other Russian cherries which have now been tried in a small way for several years.

INDICATIONS are that seedlings of the Sand cherry will become popular as plum stocks, as trees on this stock are dwarf and begin to bear when two years old from the bud.

IT IS reported that the Chicasa varieties of the plum do excellently when grafted on peach roots. They should be set in the orchard with the union just below the surface.

ONE of the most promising of the new industries of the south is pecan growing, and the demand for trees shows that land owners are rapidly taking advantage of their opportunity in this line.

SULPHURIC acid has been used successfully in cutting the gum which covers red cedar seed, to make it sprout the same spring it is planted, but the acid often kills the seed, even when applied by an expert. A far better way is to rub the seed on a wire sieve until the gum is worn away.



VIEW IN THE GARDENS OF THE HON. FRANK JONES, PORTSMOUTH, N. H.

A New Hampshire Garden.

A visit to the beautiful grounds of the Hon. Frank Jones, Portsmouth, N. H., situated a little over a mile out of the good old town, is time well spent. Robert Patterson, the head gardener, always has a hearty welcome to any of the craft, while both Mr. and Mrs. Jones seem to delight in having Portsmouth people and others enjoy visiting the greenhouses and grounds. No less than 5000 people came from all quarters to admire Mr. Jones' chrysanthemum exhibition during the five days of its continuance. These plants were a little past their best at the time of our visit, but were still worth a long journey to see.

The pleasure grounds and gardens surrounding the mansion comprise about thirty acres. The farm extends beyond the hedged enclosures in finely cultivated acres almost as far as one can see. Apart from the terraces and lawns, where many fine coniferous trees are set to advantage, there remained few reminders of the gay summertime effects. November found the flower beds and borders bare, but all neatly raked, trimmed and made sightly for the long winter. But an inspection of the extensive range of greenhouses, some twenty in number, profitably engaged all the time we had to spare. Substantial construction, perfect order and neatness are features of the entire establishment. The plant houses and their varied contents, sheds and potting house are all finely cared for. All the houses have rounded concrete walks and slate-bordered benches and are lighted throughout by electricity.

In addition to other plant houses, there are four devoted to grapes, two to palms, two to roses, two to ornamental tropical plants and one each to peaches, carnations and violets. The varieties of violets preferred are Marie Louise and California. They are grown in 6-inch pots and were bearing and showing well. The varieties of roses which are the favorites are Bride, Catherine Mermet and Bridesmaid. The plants were in perfect health with a plentitude of dark green, healthy foliage from bottom to top, and plenty of bearing wood. The temperature maintained at night is from 56° to 58°, a heat which seems to suit exactly. The centers of the rose houses are occupied by well ventilated beds and the plants are set in six inches of earth, top-dressed with decomposed cow manure. The side benches are filled with vigorous plants in 8-inch pots. All roses grown are on their own roots, and propagated on the place.

The kinds of carnations forced are Flora Hill, Harrison's White, Alaska, Lizzie McGowan, Wm. Scott, Emily Pierson, Winter Cheer, Della Fox and Mme. Diaz Albertini. For these a rather cool temperature is maintained, thus greatly extending their flowering.

Callas are made to flower very abundantly by the following treatment: After flowering time the plants are dried off in May and planted out in rich loam in July. In September they are lifted into 8-inch pots, and are taken indoors before frost. When in the greenhouse, manure water is given three times a week. A splendid batch of sixty plants testifies to the success attending this manner of securing large flowers and plenty of them.

Bouvardias, stevias and other plants, valuable in a gentleman's establishment for winter flower supplies are grown in



VIEW IN THE GARDENS OF THE HON. FRANK JONES, PORTSMOUTH, N. H.

shallow boxes, six plants in each. They can be brought along for succession or display and easily moved out when desired to give place to other plant boxes. The boxes are made of a size to fit the stages, hence no space is lost. This plan may afford a hint to others who desire to do away in part with solid beds and the handling of single pot plants. Cinerarias were being given their last shift into 8-inch pots; 50° was their temperature at night.

The palm houses were filled with a collection of the well known varieties in excellent condition. Intermingled were good specimens of marantas, dracænas, nephrolepis, crotons, etc. A house full of the newer varieties of zonal and other geraniums was in a blaze of bloom. The chrysanthemum exhibition just past was open to the public day and evening. Under a perfect blaze of electric light the great house filled with splendidly flowered plants in every conceivable hue was a sight not soon to be forgotten. At the time of our visit, the gardeners were busy shipping boxes and packages of the cut blooms sent by Mr. and Mrs. Jones to many hospitals and other charitable institutions. What a cold world ours would be if we were bereft of those who try to make others happy.

ROBERT FARQUHAR.

A New Rose Disease.

From Wiesbaden, Germany, a new disease of the La France rose is reported by *Rosenzeitung*. So serious is the trouble and so fatal in its attacks that a commercial grower expresses the fear that this variety cannot persist in infected localities more than three or four years longer, unless a remedy is provided.

The trouble was first observed four years ago. The disease makes its appearance just before the flowering period. Individual plants (not always those standing next each other) wilt, wither and in a few days lose their foliage. Others are attacked and in a short time all are destroyed. If a plant is pulled up, the roots are found to be perfectly sound. A microscopic examination of them reveals no suspicious appearance. When the crown of the plant is examined nothing unusual is found. One is led then to suspect that the disease is caused by a fungus or bacterium working within the tissues of the plant.

The disease has a very striking and at the same time fortunate peculiarity, in that, so far as known, it attacks only La France or its white sport. It has never been observed on any other variety no matter how near together the plants might grow. This peculiarity becomes still more singular when we consider that La France is one of the freest varieties from disease. It is further noteworthy that the disease has not yet been observed on plants grown in pots.

It is to be hoped that this new disease will not prove to be so serious as this first report represents it. We shall await further notes upon it with interest.

Washington, D.C. V. A. CLARK.

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OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

PASTIMES lag at holiday time. Steady attention to business now furnishes the wherewithal for recreation at the proper time hereafter. The alleys and balls will have but a brief respite for spring will soon be here and the great Detroit event looms up in the distance. We hope the holiday rush will bring substantial returns to all.

With Chicago Bowlers.

Because of the holiday rush not one bowler presented himself at the alleys last Friday night. On the first Thursday evening in January the prize medal contests will begin and will continue twice a month through January, February and March, four games being rolled at each session.

Hitchings & Company's Annual Ball.

The employers and employes of the well known firm of Hitchings & Co., greenhouse builders and manufacturers of heating and ventilating apparatus, numbering three hundred strong, with offices and factory at 233 Mercer street, New York City, and foundry in Jersey City, will congregate at Columbia Hall in Jersey City on the evening of January 31, with their relatives and friends, wives and sweethearts, to celebrate their Grand Annual Ball. Gardeners generally and friends of the company are cordially invited to attend. Tickets may be had by addressing Mr. J. McArthur, chairman entertainment committee, care of above company.

Bowling in New Jersey.

The New Jersey Florists' Bowling Club promises to cut a large figure in the reckoning to be done at Detroit next August. Practice is kept up regularly on Friday nights and some excellent scores are being made, Walter Gray having scored a 230 in the last game, with others up to the double century mark. Here is the record of the past two weeks:

Name.	1st.	2d.	3d.	Av.
George Smith	135	150	154	146
Walter Gray	206	127	107	143
John Scroll	112	156	120	129
Jos. Manda, Jr.	112	128	146	129
Geo. Von Qualen	146	122	104	124
F. L. Atkins	124	122	113	119
James Wood	116	114	126	119
Henry Bohsen	81	101	123	102

Name.	1st.	2d.	3d.	Av.
Walter Gray	163	155	230	183
Geo. Von Qualen	109	201	137	149
George Smith	178	100	164	147
David Rose	148	135	115	133
Jos. Manda, Jr.	127	127	115	123
Jas. Wood	122	125	119	122
Henry Bohsen	131	79	130	113
F. L. Atkins	102	124	100	109

G. V. Q.

A Model Store.

The firm of J. J. Habermehl's Sons, Philadelphia, has recently erected a very handsome showroom and store, which, together with the large greenhouse in the rear, built at the same time, makes their establishment one of the most complete in the city.

The store proper is twenty-eight feet wide by thirty in depth and has two beautiful show windows which round in with curved glass on either side of the entrance. The north window is fifteen feet wide and when decorated is one of the handsomest in the city. The entire front, except the plate glass, is made of sheet copper and presents a very ornamental appearance. The interior is fitted up with great care, the floor is laid with the latest tile design. The wood work is enameled white, the counter is of white tile, the large flower case, twelve feet long by nine high, is of quartered oak, the bottom and base board inside is white tile, while above, at the back and ends mirrors reflect the contents. The ice chamber at the top is concealed outside by beveled mirrors. Plate glass divides the compartments, which, with the sliding doors makes the case complete and up-to-date in every respect.

The illumination of the store is by electricity on fixtures of the latest design. A very neat and complete office and cashier's desk occupies a corner alongside of which is placed some rattan furniture and palms in ornamental vases. The greenhouse, opening out at the rear, is about one hundred feet long and filled with fine palms and other choice house plants. A large, light, cemented cellar and work room under the store is a most important addition.

There are a number of other greenhouses; in fact the establishment occupies a city block at Twenty-second and Diamond streets, nearly the entire lot being built over. The proprietors, John and Edward Habermehl, succeeded their father, now deceased, who established the business over thirty years ago. John is the Captain Jack of the Florists' Club bowling team and finds time between his business rushes to give the boys a rub at the game, at which he is a champion.

K.

Vanda Caerulea.

When a place is found suitable for this most beautiful blue orchid it thrives and during the autumn months produces long racemes of unequalled flowers as regards color. But how many of us can do the plants really well for long? Imported plants go away and promise to give the lie direct to those who assert that it cannot be kept in good condition under cultivation, but, alas, in a few months the spotting of the foliage commences, a tiny speck at first; but gradually and surely, it gets larger until you feel constrained to out with your knife and cut the affected part away. This, of course, removes the unsightly part, and to outward appearance it seems all right, but you know in your inmost heart that something is wrong with the atmospheric condition or the treatment it otherwise receives; but what? That's the point. We have seen them growing in a temperature that rarely falls below 60° at night; and also in houses that go down to 45° with almost the same result. This year we are trying them grown quite cool, that is, as cool as the odontoglossums with which they find a place. It is, however, early yet to give an opinion, as almost anything will grow in the cool house during the summer months; but if looks and healthy green foliage count for anything, we have made a decided advance. I may say that we shall keep them dry at the roots as soon as cold weather sets in.—*C. in the Gardening World.*

Begonia Gloire de Lorraine.

As this fine winter flowering plant is coming so rapidly to the front rank, it has occurred to me to ask if anyone has noticed that there are two very distinct varieties of it in commerce. They are as distinct as the Bridesmaid and Mermet roses and the difference is noticeable all through the growing season. Our plants were derived from four sources and among them were some that never showed the mottling of yellow in the foliage, the growth was stronger, and now that the plants are in bloom the flowers are pink and not rose colored, larger and the clusters more dense. The color of this variety is more pleasing to some and it would be interesting to know if the difference has been noted elsewhere.

E. O. ORPET.



INTERIOR VIEW OF J. J. HABERMEHL'S SONS' STORE, PHILADELPHIA.



GEO. WITTBOLD

Established 1857.
'Phone Lake View 136

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Tropical Plants

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If you want any goods in our line we can give very best of satisfaction in every respect. We want your future trade and know a trial order will make you a regular customer for whatever of our goods you may need. We hope to be favored with a trial order. Satisfactory references or cash must accompany all orders from parties with whom we are not acquainted. Following is a list of the stock we offer. It is in excellent condition and we are confident we can please you, both as to quality and price.

PALMS.

Measurements, top of pot to top of tallest leaf.

Varieties.	Size Pot.	Height Inches.	Character Leaves.	Prices. Each.	Doz.
ARECA LUTESCENS	5-inch	22-26	6-10	$.50	$5.00
" "	6 "	24-28	8-10	.75	9.00
" "	8 "	40-50	15-20	2.50	30.00
COCOS WEDDELIANA	3 "	10-14	4-6	.25	2.50
KENTIA BELMOREANA	6 "	24-26	5-7	1.50	18.00
" "	8 "	36-40	4-6	2.50	30.00
" FORSTERIANA	6 "	32-36	3-5	1.25	15.00
LATANIA BORBONICA	4 "	14-16	2-3	.25	3.00
" "	6 "	20-24	5-6	.75	9.00
" "	8 "	24-30	5-6	1.50	18.00
" "	9 "	34-36	7-8	2.50	30.00
PHŒNIX RECLINATA	5 "	18-20	4-5	.50	5.00
" CANARIENSIS	6 "	22-26	5-6	.75	9.00
" "	7 "	26-30	8-10	1.00	12.00

If in need of large specimens of Latania Borbonica, Corypha, Areca Lutescens, Pandanus Utilis or Veitchii, etc., write us for sizes and prices.

MISCELLANEOUS.

	Each.	Doz.
ARAUCARIA EXCELSA from 6-in. pots, perfect plants	$1.50	$18.00
" " " 7 " " "	2.00	24.00
" " " 8 " " "	3.50	40.00
ASPARAGUS SPRENGERII, 4 " nice plants	.20	2.00
" " 5 " "	.25	3.00
" " 6 " "	.50	6.00
" PLUMOSUS NANUS 2 " " $5 per 100		
" " " 3 " "		1.00
" " " 4 " "		1.50
DRACÆNA FRAGRANS, strong plants from 5-in. pots	.50	5.00
PANDANUS UTILIS " " 5 "	.50	5.00
" VEITCHII " " 7 "	2.00	24.00
PEPEROMIA VERSCHAFFELTII " " 3 "		1.00
" " " " 4 "		1.50
SANSEVIERA JAVANICA VARIEGATA 3 "		1.25
CYPERUS ALTERNIFOLIUS, strong plants, 4 "		1.00
" " " 5 "		1.50
SELAGINELLA EMILIANA nice plants from 4 "		1.50
" MARTENSII " " 4 "		1.50

FERNS.

Varieties.	Size pot.	Doz.	per 100
ADIANTUM CUNEATUM	2-inch	$.50	$4.00
" "	3 "	1.00	8.00
" "	5 "	2.00	16.00
CYRTOMIUM FALCATUM	3 "	1.00	8.00
LOMARIA GIBBA	3 "	1.00	8.00
" "	4 "	1.50	12.00
NEPHROLEPIS PECTINATA	4 "	1.50	12.00
" "	6 "	3.00	25.00
NEPHROLEPIS EXALTATA	4 "	1.50	12.00
" "	5 "	2.00	16.00
" BOSTONIENSIS	10 "	$2.50 each	30.00
" PHILIPENSIS	4 "	1.50	12.00
PTERIS UMBROSA	2 "	.50	4.00
" SERRULATA	2 "	.50	4.00

SOIL.

Pine Needle Soil, large barrel, $1.50 each.

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We keep in stock Wreathing made both from Cedar and Lycopodium and are offering same at $4.00 per 100 yards.

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ORCHID BLOOMS—L anceps and L. autumnalis, until Dec. 15th, $2.00 per dozen; $12.00 per 100.

BULBS—Milla biflora, Beaaera elegans, Cyclobothra flava, Tigridias Pavonia, Conchiflora and Rosea, per 100 $1.50; per 1000 $12. Amaryl is Formosissima and Pancratium "Spider Lily", $2.00 per 100.

CACTI—A collection of 25 different varieties $3.00, 100 Cacti in 6 good varieties, $6.00. Old Man Cactus per dozen $3 00.

ORCHIDS Lælias majalis, albida, anceps and autumnalis, $3.50 per dozen; $25 00 per 100 Odontoglossums Cervantesi, Maculatum, Nebulosum, Rossi, $3.00 per dozen; $20.00 per 100 Cattleya Citrina, $3 00 per dozen; $20.00 per 100. A sample collection of 20 different varieties, **prepaid, $5.00.**

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From $5 per 100 and $40 per 1000 to $1 each

A SPECIALTY. **L. H. FOSTER,**
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SPIRAEAS Japonica.....Per 100, $3.50
Compacta..... " 6.00
Astilboides Floribunda " 6.00
Palmata, b'utiful pink " 10.00
Extra strong clumps.

F. L. ATKINS, Orange, N. J.

SPECIAL OFFER!

Cyclamen Persicum Splendens (giganteum), transplanted twice from flats, in four true colors, $3 pe 100, $25 per 1000, express prepaid. **Cineraria** Hybrida Nana and Grandiflora, from flats, $1 50 per 100. **Chinese Primroses**, seedlings from flats, $1 50 per 100; from 3-in. pots, in bud and bloom, $4 per 100; from 4-in. pots, $5 per 100. **Cyclamens** from 3-in pots, $8 per 100; from 4-in. pots in bud and bloom, $12 00 per 100.
SATISFACTION GUARANTEED.

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Our Specialty!

ROOTED CUTTINGS of NEW VARIETIES of **CARNATIONS**

Special prices to those who issue lists or who buy to sell again. Let us know what you are likely to need and get prices.

GEO. HANCOCK & SON, Grand Haven, Mich.
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BON TON.

The best SCARLET CARNATION. Rooted Cuttings ready now. $4 per 100; $35 per 1000.

Evelina	Gold Nugget	Mrs. Joost
White Cloud	Armazindy	Mrs. Jas. Dean
Victor	Flora Hill	Mrs. Bradt
Argyle	Jno. Young	Psyche, Etc.
Empress	Triumph	Ready Jan. 1st.

No order too large. None too small.

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H. WEBER & SONS,
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A Few Special Flower Seeds.

Musa Martini	per 100 seeds,	$2.00
" alba indica	10 "	.25
" rosacea	10 "	.25
Lotus Canariensis floribunda	100 "	.35
Poinsettia pulcherrima	100 "	1.50
Paris Daisy, large flowering yellow	tr. pkt.,	.25
Adiantum cuneatum	"	.50
" fragrantissimum	"	.50
Nephrolepis exal ata	"	.50
Pteris cretica alba lineata	"	.50
Lemon Verbena, new seed	"	.25
Thunbergia fragrans	50 seeds,	.50
Bocconia frutescens	100 "	.25
Victoria regia	12 "	1.00

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H. B. MAY invites inquiries for the above, of which he holds a very large and varied stock, including all the most useful market sorts and a large selection of choice novelties. Leading sorts can be quoted per 100 or 1000. Please name special sorts required. Quotations per return mail.

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Dyson's Lane Nurseries,
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PALMS. FERNS. FICUS.

Medal awarded on Palms at World's Fair, 1893.

(Established 1884.)

100,000 strong LATANIA SEEDLINGS and 25,000 FERNS for dishes at $3.00 per 100, $25.00 per 1000.

TERMS, CASH.

ALBERT FUCHS,
2059-73 N. Halsted St., CHICAGO, ILL.
Mention the American Florist.

Pittsburg.

DEALERS PLEASED WITH THEIR EXPERIENCES WITH LOCAL WHOLESALE HOUSES.—JOTTINGS AMONG THE TRADE.—DEATH OF JAMES SEMPLE'S GRANDCHILD.

The dealers are very much pleased with their first Christmas experience of having two first-class wholesale houses to deal with and, judging from the trade both houses have built up since starting in October and the satisfaction both are giving, their venture is emphatically a success.

John Bader, Allegheny, reports his trade at Christmas very good indeed, especially in decorative plants. He also sold several car loads of Christmas trees and greens at prices a little better than last year.

Gustav Ludwig, Allegheny Market, enjoyed a large holiday trade and, in addition to his cut flower business, he handled several car loads of trees, the majority of them brought from Massachusetts.

Lincoln I. Neft reports business at his four stores as more than meeting his expectations.

E. C. Ludwig, Allegheny Market, did a better Christmas trade than for several years past, the improvement being very marked in the cut flower department.

James Semple's Christmas was saddened by the death of his only grandchild, a boy two and one-half years of age. He was buried on Monday, the mother, Mr. Semple's only child, and the father both were unable to attend the funeral, being ill with the grip.

Mrs. E. A. Williams says business this Christmas with her was a great improvement over last year. J. F. Gibbs & Son report a good increase in volume of business and Gibbs & Sunshine also report a good trade. REGIA.

Rochester, N. Y.

During November and the first half of December, prices for cut flowers were reasonably low and our florists anticipated no great change for the holiday trade, though an advance was expected all along the line. The sudden jump to the top notch was a surprise to everybody and especially to the habitual flower-buyers, who had been quite confident of obtaining a generous box of fine roses or other flowers, at prices not far above the ordinary figure. They were sadly disappointed and had to pay as high as ever before for the posies, excepting perhaps carnations, which had come into market unexpectedly plentiful, last week's fair and mild weather having brought out great quantities of them.

High prices, in the cut flower line, induced many people to buy plants of some description instead; more of these were disposed of than ever before. The plant trade for the holidays is growing with every year and, although most of our growers thought they were amply prepared to meet a largely increased demand for the blooming plants, they found themselves short at the last moment.

John Dobbertin was recently swindled out of a wagon load of palms and decorative plants in the usual way. Only three or four plants have been recovered. J. B. K.

AURORA, ILL.—Only a small part of the establishment of W. L. Smith was affected by the recent mishap to his boilers and by hard work and good fortune he was able to escape without damage to any of his stock.

DREER'S SUPERB **Double Fringed Petunias**



FOR thirty-five years We have made a Specialty of the PETUNIA. This year we again offer a set of fifteen varieties, unsurpassed either in this country or abroad. The plants are well established in three-inch pots, full of vigor, and will furnish quantities of cuttings in a short time.

These plants must not be compared in price with rooted cuttings or plants just potted off. The set is composed of the finest colors, especially suited for the retail trade. $1.00 per doz., $8.00 per 100. The set of 15 varieties for $1.25. DOUBLE FRINGED PETUNIA SEED, our own saving, 75 cts. per 500 seeds; $1.50 per 1000 seeds.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

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Send your order now if you want it. Price $2.00.

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ASPARAGUS SPRENGERI.

50,000 plants in 2½-inch pots, $5.00 per 100, Xpress; 24 for $1.50 by mail. Specimens for 8-inch pots, $6 per 12.

A. BLANC & CO. PHILADELPHIA.

Carnation Seed

Hand fertilized from the finest named winter-blooming varieties. Try your hand at securing a PRIZE WINNER. To encourage competition we will for sixty days send sample order of ONE HUNDRED fresh seeds on receipt of..... *25 CENTS*

our former price having been One Dollar per 100.

AMERICAN ROSE CO. WASHINGTON, D. C.

PALM *Seed.* FRESH ON HAND

	100	1000	3000
Kentia Belmoreana.....	$1.00	$6.50	$15.00

J. L. SCHILLER, 404 East 34th Street, NEW YORK CITY

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It is time you were thinking about

CARNATION STOCK

for next season. It pays to buy only the best. Will have them in large quantities, of all the leading commercial varieties. Ready Jan. 1st and later. Write me for prices.

Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

SPECIALTIES IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.

Prices low. Send for list.

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CARNATIONS

F. DORNER & SONS CO., La Fayette, Ind.



Are you going to carry a list of **DAHLIAS** in your '99 catalogue? If so it will pay you to correspond with me. I prepare lists and arrange the Dahlia pages for florists and seedsmen free. Write for prices, etc.

W. W. WILMORE, DAHLIA SPECIALIST, Box 382, Denver, Colo.

NEW MAMMOTH VERBENAS.

25 grand varieties guaranteed satisfactory in every respect. Strong rooted cuttings, 50c per 100, $4 per 1000. Fine pot plants, full of cuttings, $2 per 100. Cash with order. EXPRESS PREPAID to all parts U. S. and Canada. Send for descriptive circular.

AN ORDER JUST RECEIVED.

SOUTH SIDE FLORAL CO., Springfield, Ill.:
Dear Sirs—The Verbenas arrived in good order. Thanks for seeding me as good stuff as nobody has any room to kick on that kind of stuff at twice the price. Please find P. O. order for $1, for which send me 100 Double Fringed Petunias. Resp'y yours,
Brazil, Ind., Dec. 18, '98. A. DINKLE.

SOUTH SIDE FLORAL CO., Springfield, Ill.

PELARGONIUMS. 15 of the leading varieties, all good kinds. Rooted cuttings, $2 100, 2½ in. pots, $4 100.
VERBENAS. 30 of the leading kinds. Rooted cuttings, 60c per 100, $5 per 1000. 500 for $2.5, 10,000 for $40.
PETUNIAS. 15 of the best and latest varieties, not all one color, under different names; Rooted cuttings, $1.25 per 100, $8 per 1000.
HELIOTROPE. 8 varieties. Rooted cuttings, $1 per 100, $7.00 per 1000.
COLEUS. 20 good varieties. Rooted cuttings, 60c per 100, $5 50 per 1000.
Express prepaid on all varieties except pelargoniums. Satisfaction guaranteed or money refunded. CASH PLEASE. Write for list to

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GERANIUMS.

Fine rooted cuttings, mixed, from soil.....$12 per 1000
2½-inch, mixed..... 20 per 1000
" " S. A. Nutt, La Favorite, Mme. Bruant, Heteranthe, etc..... 25 per 1000
Mme. Salleroi, 2¼-inch 20 per 1000
COLEUS, fine, from soil..... 1 per 100

Cash please. **CARL HAGENBURGER, W. Mentor, O.**

GERANIUMS, grand bedders—Harrisoo, Richard, Poitevioe, Acteon, Bonnot, Nutt, Buchner and a host of other double and single. Rooted cuttings, $1.40 per 100; $10.00 per 1000. Replanted, extra strong, $13.50 per 1000

COLEUS, Red Verschaffeltii and Golden Bedder, by mail, 75c per 100; 25 Select Fancy, 65c per 100. Full list of stock ready. Cash please; we add plants for discount.

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SPECIAL OFFER—CHEAP!

Anybody who intends to grow **HEATH** here is your chance! Speak quick if you want any. I have a surplus of fine bushy plants from 3½-in. pots of the Xmas variety,

ERICA FRAGRANS, $15.00 per 100.
Cash must accompany all orders.

A. SCHULTHEIS, Box 78, College Point, L. I. N. Y.

Geranium "MARS"

	Per Doz.	Per 100
ROOTED CUTTINGS.....	$.50	$3.00
2½-INCH POTS.....	.75	5.00

Cash with order, please.

HENRY EICHHOLZ, Waynesboro, Pa.

HYDRANGEA OTAKSA

XX strong plants, per doz., $3.50; per 100, $27.50
" " for 8-inch pots..... per doz., $3.00; per 100, $20.00
Medium size, " 2.00; " 12.00
ERICA FRAGRANS, 5 & 6-in. pots, per doz., 4.50
Extra fine plants.
DUTCH BULBS & INDIAN AZALEAS now at hand.

L. C. BOBBINK, Rutherford, N. J.

Say: "Saw it in the FLORIST."

HERR'S CARNATIONS.

YOU RUN NO RISK.

ALL Carnation Cuttings are sent out with the privilege of returning them at my expense if they are not found satisfactory on receipt, and your money returned you in full. I have from one to five thousand stock plants of each of the leading varieties, and offer cuttings at very reasonable prices.

Correspondence solicited before you place your orders.....

White—Flora Hill, Alba Superba, Genesee, Evelina, Jack Frost.
Pink—Triumph, Victor, Daybreak, Frances Joost, Argyle, New York, Oneida.
Scarlet—Jubilee, Bon Ton, Firefly, Wellesley, Red Jacket.
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White Variegated—Mrs. Bradt, Armaziody, Lily Dean.
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We have a large stock of such varieties as Duke of Marlborough, Alsace, Gloriosa, Maiden's Blush, Rosemawr, Queen Charlotte, Italia, Austria. Write for prices.

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SMILAX now ready.

Why use poor Smilax? Get the best. I have 16,000 feet of glass devoted to the culture of Smilax. Orders booked now for Christmas. Write for prices.

H. TONG, 18 Nathan St., Ashtabula, O.

BEGONIAS.

	Per 100	Per 100
Argentea guttata.....2-inch,	$2.00;	3½ inch, $4.00
Feastii, Spcculata.....2-inch,	2 00;	
Rubra.....2-inch,	3.00;	
Bertha Chatteaurocher, Robusta.....	3½-inch,	4.00
De Lesseps, Pres. Carnot.....	3½-inch,	4.00
Rosea—La France ... $3.00 per 100; Meteor		2.50
White, Pink and Yellow Rambler	3½-inch	4.00

Full standard flat, 2½ in., 3½ in and 4 in.

THE NATIONAL PLANT CO., Dayton, O.

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		per 100	per 1000
GERANIUMS, Harmine, La Favorite and White Swan.	2¼-in.	$1 50	$10.00
Up-to-date, our selection ..	"	2.00	15.00
BEGONIAS, flowering . .	2¼ & 3-in.	2.00	15.00
COLEUS, up-to-date bedders,	2¼-in.	1.00	8.00
IVY GERANIUMS, mixed . .	"	1.50	12.00
HELIOTROPES, 3 fine bloomers	"	2.00	15.00
IRESINES, red and yellow . .	2½-in.	1.75	12.00
VELVET PLANT . . .	2¼-in.	2.50	20.00
FEVERFEW LITTLE GEM	"	1.75	12.00
NEW COLEUS BROWNII. .	"	5.00	
SALVIAS, 3 varieties . .	"	1.75	12.00
PETUNIAS, 10 fine varieties .	"	2.00	15.00
MME. SALLEROI Geraniums	"	2.00	18.00

5 plants at 100 rate.

THE MORRIS FLORAL CO., MORRIS ILL.

PANSIES WORTH RAISING.

Good Small Plants from cold frames or greenhouse only, at $4.00 per 1000. All others not accessible at present.

CASH WITH ORDER. **Seed as usual.**

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ROOTED CUTTINGS.

VEBENAS and PETUNIAS and other stock. Our stock is fine and prices right. Send for price list and sample. Express prepaid.

S. W. PIKE, St. Charles, Ill.

Adiantum Farleyense.

FINE PLANTS

In 5-inch pots, at $9.00 per dozen.

EDWIN LONSDALE, Wyndmoor, Chestnut Hill, PHILADELPHIA.

Money order office, Sta. H, Philadelphia.

GRANDIFLORA.
CAPE JESSAMINE.
GARDENIA FORTUNEI.

Bloom half again larger than G. Florida. Northern florists retailing at 75c to $1.00 each. Stocky plants.

18 to 24 inch.....per 10, $1.00; per 100, $7.50.
2½ to 4 feet " $1.25; " $9.00.

C. W. BENSON, Alvin, Texas.

THE JENNINGS STRAIN **PANSIES.** SEED. PLANTS.

Finest mixed. Good little plants for cold frames, $4.00 per 1000, express.
Seed, $1.00 per pkg, $5 00 per ounce.

E. B. JENNINGS, L. B. 254, Southport, Conn.
Grower of the Finest Pansies.

Milwaukee.

SPLENDID CHRISTMAS FOLLOWS A DULL NOVEMBER. — THREE POINTS WORTH MEMORIZING.—FEW FLOWERING PLANTS OFFERED.—THE VARIOUS STORE DECORATIONS —NOTES AND COMMENTS.

The florists of this city generally complained of dullness of trade in November but business began to improve toward the latter part of that month and has been good since the middle of December. The demand for choice stock was so firm that the high prices for Christmas were not complained of and the number of cut flowers handled here was much larger than at any previous Christmas. Some dealers worked all Saturday night for Sunday delivery and orders Monday could only be partially filled.

Three points demonstrated by this season's business are worthy of special notice by growers in this vicinity. The increased proportion of fancy stock is the cause of ready selling; the shortage of red flowers was a fair indication of what must be done to hold trade another year; and it is a surprise to note the surplus of violets.

The plant trade was good, but was confined principally to palms. There were but few blooming plants offered. In this line there has not been any well directed effort for Christmas by local growers, and the urgent appeal from the retailers should generate a greater spirit of enterprise.

While all the stores made good window displays among the best was that of Volk & Stewart, who displayed poinsettia plants, Asparagus Sprengerii, Harrisii lilies and Pandanus Veitchii as a setting for cut flowers. Alex. Klokner's window was exceptionally well arranged but was so constantly covered with mistletoe that it did not do the advertising it should have done. Fox's window was varied and revealed the principal counter well laden with flowers with Miss Ryan serving several customers at once, which was attractive. McKenny's was principally cut blooms in clusters, but one color. The Curries had a very large holly wreath with a small ribbon with palms and ferns. Ben. Gregory had a pretty lot of stock but the rebuilding of the Plankington house interfered with his trade. English's window was all bloom. The Paris Floral Co.'s outside show cases were neatly trimmed, there being no opportunity for window display. Binzel & Kellner, Baumgartner and Edletsen, who take good care of Third street trade, each showed plants in fair proportion to cut blooms. One noticeable feature this season was the increased number of orders that were received days ahead, which enabled us to calculate more accurately what to purchase.

Stevia has been quite prominent in decorations this season.

The large single violets are beginning to find favor.

While the weather has not been disagreeable, growers have used ten per cent more coal than is usual up to this time of year.

Robert Currie, of Wauwatosa, has been sending violets that have raised the standard considerably. Oconomowoc will have to look to her laurels.

C. B. W.

TOLEDO, O.—Plans for the range of city greenhouses have been revised and the growing houses made much smaller to come within the appropriation.

THIS IS IT.



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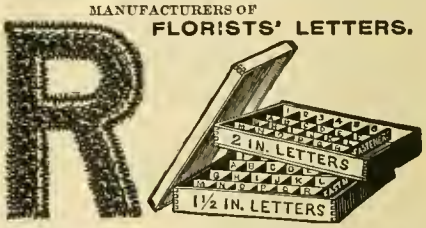
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THE MODEL PLANT STAKE CO., 22 Morton Street, Brooklyn, N. Y.

Tell them where you saw the ad.

Buffalo.

HOLIDAY TIMES IN THE BISON CITY.—PLANT SALES LARGE.—THRALL'S NEW STORE.—KASTING'S ENDEAVORS.

Christmas trade did not get serious until Friday and not until about 10 a. m. Saturday did it get down to an old-fashioned Christmas crowd.

Carnations were decidedly scarce. American Beauties were sold at from $15 to $24 per dozen, more at $18 than any other price, and I think that some that bought Beauties were wearing suits of clothes made in one of the stores that has a big sign on the front "$15, no more, no less." But such is life and we look on.

Violets were good and sold at 75 cen to $1 per bunch; they seem to be getting more popular all the time. Palms, principally kentias and arecas, sold well. Cyclamens, azaleas and primroses sold readily, but the supply was not large, still, I think, was enough to go around.

Starting in last Monday every florist had funeral work and it kept up all the week, Christmas included.

A. L. Thrall branched out on Friday with an annex down town and a fine white wagon with gold letters on it.

Wm. F. Kasting had a good stock and everyone went away from there satisfied, at least they should have been, for he tried to please all and divide the carnations so we could all get some. If we had wanted tooth picks all could have had their full order.

As soon as the holiday rush is over another meeting of the club will be held, when we will try and organize a bowling club. W. A.

Heating Notes.

"Poor iron," is usually the fireman's excuse for burnt out grates, but poor management is more often the true reason. Grates may be melted out in a few hours if the pit is left full of ashes, whereas with a clean ash pit, that is, where ashes are never nearer the bottom of the grates than six or eight inches, grates will last for years. I have known of grates being in continuous use for thirteen years, where the boiler was of ample capacity, so as not to require excessive firing, and the ash pit was cleaned out at least once every day. The trouble in connection with a burnt out or broken grate is not alone the cost of a new one, but the difficulty of maintaining a perfect and even fire while waiting for the new grate to arrive. It will pay to keep an eye on the ash pits. HENRY W. GIBBONS.

Newport, R. I.

The annaul election of officers for the Newport Horticultural Society takes place December 28 and at the conclusion of the meeting a social session occurs. A number of the present officers have announced their intention of stepping down to allow others a chance to show their capabilities. The society has made much progress in its work in the past year.

The Christmas trade here did not amount to much. There was a scarcity of violets and carnations. There are shipped daily from Carl Jurgens' place fine roses and lily of the valley. Mr. Jurgens is at present on a visit to Jamaica in the West Indies. J. B.

SYRACUSE, N. Y.—In 1862 P. R. Quinlan took charge of two small houses belonging to Smith & Powell, nurserymen. To-day Quinlan & Co., have a range of thirty-two modern structures.

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2½ "	1000	" 23 "	.30	2.40
3 "	1000	" 34 "	.45	3.90
3½ "	1000	" 45 "	.60	5.15
4 "	500	" 76 "	.80	6.90
5 "	500	" 100 "	1.20	10.35
6 "	500	" 150 "	1.65	14.55

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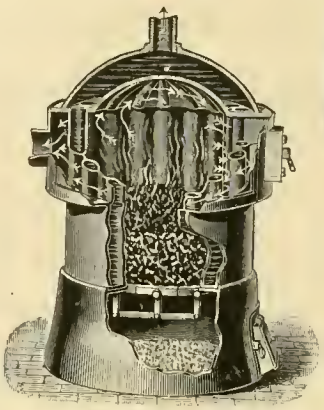
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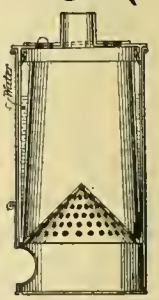
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Vol. XIV. CHICAGO AND NEW YORK, JANUARY 7, 1899. No. 553.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fifteenth annual meeting will be held at Detroit, Mich., August, 1899.

OFFICERS-ELECT [to be installed Jan. 1, 1899], W. N. RUDD, Chicago, Ill., president; PHILIP BREITMEYER, Detroit, Mich., vice-president; secretary and treasurer as before.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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Novelties of Recent Introduction and Talk on Some Coming Claimants.

[Abstract of a paper read before the Florists' Club of Philadelphia by A. Blanc, January 3, 1899.]

I have been asked to read a paper on novelties of the past and future, though why this honor has been accorded to me is somewhat of an enigma, as many of you are better posted on the subject. However, I will do what I can under the circumstances.

It has been said that novelties are the staff of life for florists and seedsmen; and it is true that many most prosperous in the business owe their first success to some taking novelty in plants or seeds, which carried them on the tide that led to fortune.

By thousands who take an interest in the new plants introduced from year to year it is to be regretted that the publication of Professor Bailey's "Annals of Horticulture" was discontinued. It was an invaluable work on that subject and on horticulture in general. It is greatly missed by many, as to-day there is no work to take its place..

To show how few novelties eventually become popular, I might say that in 1891 884 species and varieties supposed to be new were introduced to the American trade—including vegetables and fruits; and I fear that not ten of them are grown in or near Philadelphia at this time. We may perhaps find one or two carnations and chrysanthemums.

One of the first sensational novelties introduced in this neighborhood was chrysanthemum Philadelphia, raised by Mr. Graham. It did more to advertise our city as a chrysanthemum-growing center than any other plant I know of, and was certainly far ahead of anything raised up to that date. Since then it has been eclipsed by Pennsylvania, Carnot, and no doubt by several others.

The chrysanthemum which is good enough to receive a certificate nowadays is hard to improve upon and the acme of perfection seems attained. I read in a foreign journal that the latest introductions of the most celebrated French chrysanthemist, to whom we always looked for something grand, are very disappointing and actually not worth growing.

My opportunities for studying the new chrysanthemums have been so limited that I shall have to refer you to the list of varieties certificated lately published in the trade papers, as it would take too much of your time to give even a list of the meritorious ones.

Chrysanthemum Ivory is probably the best for all commercial purposes to date, but, as usual with a good thing, every one has grown it in excess of the demand, and as a result the flowers have been sold at a loss. It may therefore be discarded for some other variety newer but of less merit.

The chrysanthemum we do want, I suppose, is one that will bloom continuously from September until Easter, bearing immense, sweet-scented flowers of various colors on one plant—including blue, I dare say. I hear that one is to be offered in New York which is said to bloom from July until New Year, and even later, and is perfectly hardy in the open ground.

ROSES.

In roses we have forgotten Her Majesty, Wm. Francis Bennett and hundreds of others supposed to be grand acquisitions; but it is a pleasure to note that American Beauty, the Bride and Bridesmaid (the latter two roses of American introduction) are today the most popular forcing roses in this country.

President Carnot has hosts of admirers. The trouble with it is that it will go to rest in January and February; yet some of our best growers still hold on to it and will bring it in for Easter, spring and summer, when it is at its best. Its distinct shade makes it always a seller.

It is a great pity we have discarded Madame Hoste, Mrs. Morgan, Madame de Watteville and others of this class, as every flower shop in the land feels the need of more variety. The man who will grow a houseful of each of these is sure to find a sale for them at a high price.

What we now want is a yellow Bridesmaid with the color of Marechal Neil. The man who gets it need not be afraid to ask $5,000 for it.

Crimson Rambler certainly jumped into favor with less trouble than any rose introduced for years. It is bound to be found in the gardens of our grandchildren. Those who have seen the hedges of it with thousands of clusters in full bloom can never forget the glorious sight.

Its three sisters, Aglaia, Thalia and Euphrosyne, have not given the same satisfaction everywhere, being much less hardy and not so suitable for forcing.

Royal Cluster is the name of the new hardy rose to be sent out by the Conard & Jones Co. this year. It is the result of a cross between the Dawson and the Hermosa. It bears clusters of over 100 flowers, the color of which is white tinted with blush. It has the advantage over Crimson Rambler of having a spicy fragrance, and apparently possesses all the good qualities of Crimson Rambler, which is saying a great deal.

Mr. Manda's hybrid Wichuraianas, Triumph, South Orange Perfection, Universal Favorite, Pink Roamer, are fine things for the garden; and his very latest evergreen

hybrids, Jersey Beauty, Gardenia and Evergreen Gem are claimed by those who know to be of immense value for garden purposes, and sure to be grown in all parts of the world.

It is a pleasure to note that the Lord Penzance sweet briars have found many admirers in this country. The new colors found among them make them desirable for amateurs as well as for parks and large gardens.

Much was expected of Carmine Pillar which is such a great favorite in English gardens; but, like the Rugosa roses, it does not seem to please the American fancy.

The Climbing Kaiserin (or Mrs. Peary), a sport from Kaiserin, originated in Wilmington and also with Mr. Chas. Cox, of Philadelphia, will prove a valuable rose for the south; and, if hardy, equally so for the north. The same may be said of Climbing Meteor.

Climbing Wootton is now claimed to have proved hardy in this latitude, and is a fine rose for porches or pillars, growing from ten to twelve feet in one season.

No better name than Liberty could have been selected for a new rose, and we congratulate the raiser upon his choice, which will help to make it popular here. It is of a better and more uniform color than Meteor and has not the fault of producing flowers of too dark a color. In this respect Liberty has a decided advantage. It is grown now by Mr. Asmus and Mr. Alexander Scott and will not be sent out until 1900.

Clara Barton, originated in the west, is a sport from Bridesmaid. It is darker and said to be a very distinct shade.

While some grand roses have been raised in America within the last few years, we regret that we are still far behind the English rose grower who some time since advertised to send, all for one shilling, a blue rose, a green rose and a rose as big as a cart wheel. Likewise we are outdone by the Russian gentleman who is said to possess a really black rose.

Of the hundreds of French roses sent over at very high prices, none are suitable for forcing in winter and consequently the demand for them has greatly diminished.

CARNATIONS.

So many good new carnations have been introduced within the last few years that it would exhaust your patience to talk about them. Besides you know more of them than I do. It is to be regretted that the prices obtained for cut-flowers make it more and more difficult to grow carnations at a profit, even with the most exhaustive care and the most economic management. In future it will only pay to grow the best varieties, such as White Cloud, Flora Hill, Evelina, in whites; Victor, Triumph, Argyle, Mrs. Joost and others of that class in pinks. Melba is the best among the pinks. It is owned by Robert Craig & Son and John N. May.

A good red one is badly needed, and this want will be supplied next spring by Mr. Fred. Dorner with W. H. Crane. This variety is equal in size to Jubilee, of as fine a color, and has the advantage of being much freer in bloom.

Among other notable newcomers will be J. Whitcomb Riley, a delicately variegated pink and white variety of immense size and many good qualities. It was raised by Mr. E. G. Hill and is now owned by Messrs. Dailledouze Bros. and Mr. Asmus.

Maceo is a dark crimson, a very free bloomer raised by Mr. C. W. Ward, who also has Gomez, a crimson as well, brighter and better in color but not nearly so free a bloomer as Maceo.

Mars is a superb scarlet. It is doubtful, however, that it will be sent out the coming season. America, by E. G. Hill, is a red one of great promise.

Mrs. Lawson is probably the finest pink in existence for forcing. It will not, however, be disseminated until the spring of 1900. It is currently reported that $5,000 has been refused for the stock of this variety, and the report seems to be true. Did the owner make a mistake in refusing?

CANNAS.

The word canna seems to give most growers the grip. They have got them badly and cannot get rid of them. To-day you can buy them for a song. The cause is again over-production; and while the demand has doubled or trebled every year, the supply is always too great. Think of one man getting 300 pounds of seed from his patch of cannas, and then imagine how many roots he must have lifted! I have known, however, of foreign varieties, costing $3 to $4 each, being left in the ground to freeze.

There is said to be an edible canna—and if all cannas were only so, what a paying crop they would be.

In the raising of new and superior cannas we have within the last few years totally eclipsed and displaced the French ones upon which we used to rely altogether. To-day thousands of American cannas are sent abroad, not only to France, but also to every part of Europe, Asia, Africa and even Australia.

You will not make a mistake in growing Philadelphia, President McKinley, President Cleveland, Menelek, Duke of Marlborough and Champion as the best reds; Mlle. Berat, Mary Washington, Duchess of Marlborough as the best pinks; Yellow Crozy and Topaz as pure yellows; Klondike as the only true orange; Rosemawr as the best salmon; Maiden's Blush as the best rosy flesh; Gloriosa and Cuba as the best gilt-edged sorts; and Florence Vaughan as still the best spotted variety to date. Black Beauty is not only a beautiful dark-leaved sort for bedding, but could well be grown as a decorative plant.

Probably every one of these may be superseded by newer and better varieties before long. It is edifying to know that in the raising of new cannas we can still report progress.

DAHLIAS.

In dahlias some of us think we beat the world; but I guess it may be easier to beat the Spaniards. Although I am personally a great admirer of the dahlia and have endeavored to help the boom, yet I begin to believe my friend Mr. Craig when he says, "Drop them." In Pennsylvania, at least, it is a losing business. But if I had the knowledge of their requirements and the warm, sandy soil that our enthusiastic friend, Mr. Peacock, has at his command, no flower would be more delightful to grow.

In dahlia novelties we are far behind the English growers. None of the latest and best cactus dahlias—now the only class popular in England—have been grown, or at least shown, in this country. If they are as far superior to the variety Gloriosa and others shown here as they are said to be, and will bloom as early or earlier, then indeed there is a grand future in store for them. You all know what splendid exhibitions were made in this hall of such fine flowers as Grand Duke Alexis, Clifford W. Bruton, Wm. Agnew, and other prize winners; and I am sure that Mr. Peacock has some great surprises up his sleeve, with which he will fill this hall next autumn.

FERNS AND ASPARAGUS.

The fern that has invaded every household and delighted its purchasers perhaps more than any other plant is certainly the Boston fern. How quickly it has become popular is well known to you. It was raised near Boston and sent to Kew for a name. Nephrolepis Bostoniensis was suggested and adopted. It is one of the very few things of which there was not enough to go around on Christmas. Orders for hundreds of plants in 6-inch pots at $1 each could not be filled. It is much more graceful than the old Nephrolepis exaltata, which, however, it closely resembles, and seems to stand rough treatment even better. It seems good for a few years to come, and I hear it is to be grown even more extensively than at present.

You will soon learn of a new giant nephrolepis from Washington, the stock of which is now in possession of Mr. N. Studer and Mr. John H. Ley, who will put it on the market next spring. It is to be called N. Washingtoniensis. Its proportions are enormous, the fronds growing to a length of eight feet, and a foot in width. It's going to come high, like—but I guess we'll have to have it. As a fine large leaf for decorative purposes it is likely to prove useful and valuable.

Asparagus Sprengerii, by some called emerald feather, which I believe I helped to introduce, is another most welcome addition to the list of plants that you cannot well do without. Some big asparagus growers said it would not take, and perhaps they are not growing it yet; but it is safe to say that half a million plants have been raised from the seed alone this year. Being so handy for many purposes and not liable to go back, even in the hands of inexperienced persons, it will continue to be grown very extensively. Many new seedlings of it have appeared lately. I know of six very distinct ones, all of which have merit. One is an almost erect grower; another is of drooping habit with secondary branches growing upwards, or rather backwards; still another is nearly pure white.

BEGONIAS.

Begonia Gloire de Lorraine is the best commercial begonia introduced within the last decade. It is very difficult to propagate in winter, because it produces none but flowering wood. But in spring it sends suckers from the base, which are readily rooted and grow freely during the hot summer months. They begin to flower in great abundance when the weather becomes cool in the fall. As a Christmas pot-plant it has no superior. Specimens grown in 7-inch pots, 18 inches by 18 through, sold readily at $30 per dozen, and in some cases at $48. That's pretty good for plants grown in summer and without much cost for fuel. I believe it has come to stay.

Duke Zeppelin is a most useful and attractive tuberous variety, and will become a favorite for bedding. It stands the sun better than any other begonia I know of, is very dwarf in growth and is not approached by any other in brilliancy of its color. It is a dazzling scarlet and very double. It is a German variety, introduced by the Dreer company.

A new double-flowering Begonia Vernon is soon to be placed upon the market. Its color is very bright and the flowers are of fair size.

While on the subject of begonias I



CYPRIPEDIUM BELLATULUM AND ADIANTUMS.—SEE NEXT PAGE.

should mention that some superb Rex varieties have been offered recently, notably Princess Charles of Denmark, but unfortunately this class has been attacked by a fungoid disease which destroys the leaves and frequently kills the plant. The disease is common in many sections of this country and in England.

MISCELLANEOUS.

A plant which has apparently escaped your notice is Campanula Mirabilis, of which the English journals speak in most enthusiastic terms as a free-blooming pot-plant. The bellflowers have been considered hard to grow, at least in the east, but I don't know what Mr. Thorpe would have done without them at the World's Fair. It is to be hoped that some of our energetic members will give this variety a chance. The seed is offered by Dreer and by Michell.

The fin de siecle novelty was thought to be Acalypha Sanderi; and no more interesting plant could be desired. Although it is now said to have been known and described under four or five different names years and years ago, Mr. Sander, of St. Albans, should be given great praise for re-introducing it. No other plant has created such a sensation here or abroad. It seems to take the fancy of the public as well as of the grower. Its success is assured, and I know positively that orders for 5,000 lots had to be refused, even for future delivery. This ought to be a pointer to those who have a stock of it. Few of you may know that it is a climber, reaching a height of eight to ten feet. Its drooping flower-spikes, or floral tails, as some have called them, must then be very attractive. Its proper name is Acalypha hispida, but some think a popular name is required. One party has suggested the crimson cat's tail or the cat's crimson tail, which is about as bad as "Caterus caudatus," under which it was known years ago.

Among the plants that will be offered as new this year are many that will be found worth growing even by florists. Not the least important is Primula Forbesi or the baby primrose, which has suddenly become a favorite and in great demand. Perhaps you have all seen it lately, and yet you may not realize what a very good thing it is. When I tell you it begins to bloom while small enough to grow in a thimble—blooms ten months a year in succession—fills six-inch pots in about four months or large pans in about six, and then carries fifty to 100 flower spikes at one time; when I say that this week I saw some flowers which were cut Thanksgiving day and were not wilted yet—that $2 per 100 has been paid for the sprays—that it can be grown in a cold house or in frames where Marie Louise violets will bloom—then you will not wonder that I am enthusiastic about it. The man who has a houseful of it by Easter ought to coin money. It can be benched closely and makes an elegant pot plant, salable at any time while in bloom.

Another good pot plant is Ruellia Mackoyana, a Belgian novelty recently exhibited at Ghent. It is a fine plant for growing in shady places, where others would die. Its dark, velvety olive-green foliage, veined with white, is quite ornamental, and its carmine red flowers appear during nearly the entire year. It has been twice color-plated in Europe—an honor accorded only to good things. It will soon be offered by the thousands.

It will surprise many of you gentlemen to learn that some fifty new seedling crotons raised by Mr. Lonsdale promise to outshine many of the finest European importations. You will hear of them in the near future and they will create special interest, as they are American grown. A new variety from Europe, named Aigsworth's Gem is also said to be a veritable treasure.

Hibiscus Peach Blow, a beautiful double pink sport from a double scarlet, is now being worked up by Messrs. Robert Craig & Son. It is a fine thing, making dwarf, dense, bush-like plants; an excellent bedder, very freely covered with blooms during the entire season.

A really new thing is Childsia Wercklei, a native of Costa Rica, named at Kew and to be offered this year by Mr. Childs, of New York. This "Treasure Vine" is a rapid and early climber, bearing large orange-scarlet flowers closely resembling a cosmos. To me it is a very interesting and beautiful plant.

Almost identical to the above in the form and color of its flowers is the new, early-flowering, Cosmos Klondike, a Mexican plant improved upon by Mr. A. W. Smith, of Americus, Ga., for whom it blooms as early as May 15. If it would only do so here, the florists would have something fine to cut early. The flowers are quite large and a bright orange. The foliage is substantial and the stems long.

It is easy to recognize that only the very best plants remain popular for any length of time. Among these may be classed the Otaheite orange—and, by the the way, I am sure that the Japanese Kumquat, if taken in hand by Mr. Harris and others, would prove even more popular, as it bears a greater number of

fruits, which, although smaller, are delicious to eat and can be ripened on plants not over a foot high. Others that will remain popular are: Bougainvillea Sanderiana, Carex Japonica, Phrynium variegatum, Livistonia rotundifolia, Abutilon Savitzi, Justicia flava, J. velutina and even Solanum Wendlandi—and the grand Clematis paniculata which, even as a pot plant, sold at $10 each.

For the garden we have been favored with more good new plants than at any time before. Most of them are of recent introduction and have come to stay. Probably the best of all new garden plants is the double Rudbeckia Golden Glow. I have not heard any one say a word against it—and that is indeed wonderful. Its long-stemmed double golden flowers are of great use to the florist.

Caryopteris Mastacanthus is perhaps nearly as good and is to be found in almost every garden. I have seen it loaded with lavender-blue flowers until the end of November, hundreds of bees, frozen stiff, nestling on the sprays. Just imagine a large bunch of it displayed on a table, bees and all! This year a white-flowering variety is offered—a much earlier and even more profuse bloomer. Whether it will prove as hardy remains to be seen.

Spiræa Anthony Waterer has become a favorite; likewise several new deutzias, among which the best seen to this date is the variety Lemoinei, which is still more useful for forcing. This, however, though with us only a year or so, will soon have to give place to Deutzia Lemoinei compacta, claimed to be dwarfer and more floriferous. Deutzia corymbiflora, lately illustrated in the AMERICAN FLORIST, is said to be so completely laden with white flowers as to appear like a huge snow-ball. We might have called it Snow in Summer, had this name not been already taken.

Sambucus racemosa plumosa aurea is a long name for a new golden-leaved elder which far exceeds in beauty any golden-leaved shrub known at present.

Astilbe Chinensis, a rather tall-growing spiræa, is simultaneously offered here and abroad. It has been sent to England for re-shipment to Holland in 1000 lots at low prices; and yet I hear that some firms are bringing it over and paying $2 per plant for it. Watching the advertising columns would have saved them considerable money.

What promises to be a fine addition to the garden is Buddleia variabilis, a fine, tall-growing shrub with handsome foliage, dark green above and silvery white below, bearing in a graceful manner very long recurving spikes of rosy-lilac flowers. The buddleias have not been favorites, but this one is so very highly recommended by Messrs. Vilmorin, that we may give it a prominent place without fear of being disappointed. Besides the above there are many others, such as Incarvillea Delavayi and variabilis, new aruncus, new anemones, new clematises such as Marcel Moser and Nellie Moser, and new hardy asters.

Grasses have never been very popular, but there is one which, never seen in gardens until the last two years, invariably elicits words of admiration. Its name, however, Pennistum Ruppellianum, will prove as killing to it as a severe frost. Purple feather grass seems more euphonious. Raised from seed it quickly attains large proportions, sending forth hundreds of silky, bending blades terminated by purple feather-like heads six to ten inches long. They are quite new in color and fine for floral work. It makes an elegant pot plant in a very short time from seed and is fine for table decoration even when in a small state.

Sweet peas are still the rage. New and important varieties are offered every year, nearly all the best ones being sent out from this city. We will soon have sweet Cupids in all colors, red, white and blue. Mr. Burpee introduced among others three remarkably fine sweet peas which every florist in the land should grow in quantities. Burpee's Earliest of All is the early bird that catches the dollars. It is identical with Extra Early Blanch Ferry except that it is more dwarf in growth and comes into full bloom at least ten days earlier. Eckford's Sadie Burpee is extremely dainty in shape and of a pearly whiteness beyond description. Burpee's Navy Blue is a distinct color innovation that will create surprise.

Now if you really want good things and new, don't confine yourself to this list by any means, as no doubt hundreds of good ones have been overlooked. Scan the advertising columns of the trade journals carefully. Something new is always to be found therein that will save you money.

Why, the other day a man was trying to sell me seed of a supposed novelty at $12 a pound—twenty pounds was all there was of it. I happened to glance over the columns of an anniversary number and lo! the first thing that caught my eye was an offer of the very same thing at 25 cents per pound! Did he feel cheap? Well I guess. I bought fifty pounds for $12.50 and saved $587.50.

The catalogues, which are beginning to come in by the basketful, will be a source of comfort and instruction to us. We should read them carefully and learn how little we know about our business. Here, for instance, is a description of a plant which to my knowledge has been offered in many catalogues for the last fifteen or twenty years. How many of you will recognize it? I should like to take a vote upon its name after I have read the description. You will all acknowledge that it must be the most beautiful thing under the sun, and blame yourselves for not tumbling to it sooner:

"The hardiest of hardy climbing vines. For many years we have been in quest of this beautiful hardy climbing vine, which might be well called the carmine wistaria, so similar are the lovely clusters of flowers with those of the wistaria. Apart from the similarity of the flowers, it differs from the wistaria in many ways. We believe it to be one of the most beautiful as well as one of the rarest hardy climbers in existence, and we have the distinction of being the only house to offer it at any price. Absolutely hardy, once planted it is practically everlasting. The foliage as well as the habit of growth resembles Ampelopsis Veitchii, one of the most popular and valuable of hardy climbers. It surpasses A. Veitchii, however, inasmuch as it produces immense clusters of the most exquisite flowers imaginable. The flowers are borne in prodigious profusion, and a well established plant, loaded with its gorgeous carmine flowers, is one of the grandest sights we have ever seen. Imagine a plant of Ampelopsis Veitchii with its magnificent, large, deep-green foliage covering the entire side of an ordinary dwelling, loaded down with large clusters of carmine flowers—and you can form an idea of the splendor of this novelty.

"Like Ampelopsis Veitchii, it is freely furnished with long tendrils that attach themselves firmly to stone, brick or wooden walls. It grows with the greatest rapidity and soon covers a large area. It is absolutely hardy and can adapt itself to any soil, locality or exposure. For covering posts, pillars, residences, etc., it will supersede many of the now popular hardy climbers. It covers all with an even, uniform mat of dark green foliage, which in autumn changes to brilliant crimson.

"This is really a wonderful novelty, which will excite the admiration of the botanist as well as that of the amateur planter. It is one of our grandest introductions, sure to become immensely popular because of its handsome foliage, hardiness and, lastly, its superb, brilliant flowers.

"We make the price low for strong plants. This is one of the plants you will be sorry to have missed getting when you see it growing and blooming. By all means take our advice and include three plants, at least, in your order."

Do you recognize it, gentlemen?

Cypripedium Bellatulum.

The illustration of the group of this beautiful cypripedium shows a very good example of the successful culture of a rather difficult subject. There is no trouble in growing it for a year or two after importation, but as time goes on it seems to get more delicate in constitution and very susceptible to decay at the base of the leaves if moisture reaches the plant from above. This trouble we find is more prevalent if the temperature is kept high, but on removal to the more airy and drier cattleya house, it has altogether disappeared and the plants are thriving. We were induced to buy largely of this cypripedium because of its value as a boutonniere flower, and the flowers are used entirely for this purpose. We have failed to get any results from it as a parent in hybridizing, but others have succeeded and its progeny are among the most valued by the connoisseurs.

This species seems to be widely distributed through the islands of the China Sea, and it has also been found in quantity in the Shan States from whence came C. Charlsworthii and also a most beautiful form of C. bellatulum, the only pure white one known, and to me the most desirable plant of this family. The variety has additional good qualities in being a vigorous plant, much more so than the type, easy to grow, flower and increase. When potting cypripediums of this section, which also includes C. concolor, C. Godefroyæ, C. niveum and others, it is well to add, if procurable, instead of crocks, a few pieces of limestone, as the roots cling to it with tenacity; they are found growing on limestone rocks. It is also best to use nothing but good fibrous loam instead of the usual mixture, and if when potting, there is at least half an inch left for water to be applied, it will be easy to give it without wetting the leaves, and by this course the rot at the base of the foliage will be largely avoided if the house be not too moist.

E. O. ORPET.

WILTON, IA.—John Beimford, the pansy man, has been elected secretary of the Wilton Fair Association.

DENVER, COL.—Mr. and Mrs. Henry Houseley announce the marriage of their daughter Ethel Stendahl Houseley, to Perry C. Gallup, of the Gallup Floral Co. The nuptials were consummated December 31 at St. John's cathedral.

CHRISTMAS TRADE.

Herewith we present some further and generally favorable reports on the Christmas trade:

DEXTER, ME.—Christmas trade was fifty per cent ahead of last year. It was the best season on record. C. H.

LARAMIE, WYO.—Trade was about the same as last year. There were plenty of fine flowers and prices fell. Roses were most sought. No plants sold here. G. A. H.

VICTORIA, B. C., CAN.—Trade increased twenty per cent and prices ten. There were plenty of fair flowers. Decorative plants sold better than ever before. J. M. T.

PROVIDENCE, R. I.—Trade was the same as last year; supply equal to demand in most cases; flowers poor; scarcity of carnations; call for flowering plants and cheap green. W. E. C.

HAMILTON, ONT.—Trade one-fourth better than last year with not enough stock and much of it of poor quality; demand principally for roses and carnations. Plants sold well. E. G. B.

SHARON, PA.—More palms, holly and wreathing were sold than a year ago but otherwise there was little change in the trade conditions; everything sold clean but prices did not advance. J. M.

WICHITA, KANS.—Holiday trade was good here, every florist reporting a good increase over last year. Much of the stock was shipped from distant points and much of it was poor. W. H. C.

MILWAUKEE, WIS.—The week's business was the best ever recorded. There was a shortage of red flowers and flowering plants, but, strange to relate, we had more violets than we could use. W.

LYNN, MASS.—Christmas trade ten per cent ahead of last year; much better prices; supply short; quality better; great call for carnations; violets very scarce; palms and ferns good sellers. J. L. M.

FALL RIVER, MASS.—Trade was ten per cent ahead of last year and there was a shortage of all flowers except pink. Special call for Beauties could not be met. Less sale for plants, more for greens. C. W.

DUBUQUE, IA.—Trade was thirty per cent ahead of last year. Plants and bright flowers sold well; roses in good supply except red; carnations plentiful and popular, especially red; bulb stock slow. W. A. H.

LOS ANGELES, CAL.—Although there was much more stock than last year there was not nearly enough. The total of sales increased fully fifty per cent and plant sales were forty per cent ahead of a year ago. D. R. W.

BRATTLEBORO, VT.—There was a considerable increase in the season's business but twice as many carnations and violets could have been used. Sales of Boston fern, palms and primroses far ahead of previous records. D. G.

ST. JOSEPH, MO.—Not much call for cut flowers except roses and carnations, but trade was ten per cent ahead of last year; all the greens sold. Flowers were not so plentiful as a year ago and were not as good. Great call for American Beauties. Increased sale for all plants. J. M. K.

UTICA, N. Y.—Trade ahead of last year; supply adequate except of roses; calls for boxes of orchids which could not be supplied; big demand for Beauties; flowering plants sold better, palms not so well. W. M.

TACOMA, WASH.—Trade was twenty per cent ahead of last year; prices were slightly higher and there were not enough violets or chrysanthemums, for which there was great demand, also for red and pink carnations. L. M.

WATERBURY, CONN.—This Christmas showed more cash sales than last; better supply and better stock than a year ago; steady increase in the call for good carnations. Most noticeable was the sale of pot plants and holly. A. D.

NEW ORLEANS, LA.—Christmas business increased thirty per cent although prices fell ten per cent. There was an abundance of stock and most of it was fine. There was a fifteen per cent increase in the sale of palms and ferns. U. J. V.

OMAHA, NEB.—The summer's great exposition may be credited with the better prices obtained this season and holiday trade increased thirteen per cent. There was too little stock but much of it was better than usual. American Beauties and carnations were favorites but there was increased call for all sorts of well grown flowering plants. H. S.

CAMDEN, N. J.—The Christmas returns were larger than a year ago. There was plenty of stock and most of it was very good. Red roses were in demand, as were Ficus elastica, chrysanthemums and palms. Ferns unremunerative. C. W. T.

CLEVELAND, O.—Business was twenty per cent ahead of the corresponding week of last year and the supply was not equal to the demand. The most noticeable feature of the week's trade was the unusual call for flowering plants. T. R. W.

NEW HAVEN, CONN.—There was less cash trade but much more in credit. Marked increase in calls for bright colored flowers. Red carnations and poinsettias short. Less sale for cypripediums but more for primroses and cheap plants. R. V.

SAN FRANCISCO, CAL.—Trade was thirty-five per cent better than for the holidays of 1897. Retail prices were about



BEGONIA GLOIRE DE LORRAINE AS A BASKET PLANT. SEE NEXT PAGE.

the same but wholesale figures were higher, except on chrysanthemums, which were very plentiful. There were plenty of all flowers but roses and violets. Decreased call for all lines of plants, especially Roman hyacinths. S. B.

BRIDGEPORT, CONN.—Christmas sales ten per cent ahead of 1897; prices the same; plenty of stock; quality unusually good; extraordinary call for red flowers and plants in bloom. There was more box trade than ever and three times as much holly was used. J. H.

NEW ALBANY, IND.—Christmas trade was seventy-five per cent better than last year, with large increase in the sale of palms, ferns and azaleas. Cut flowers about the same as last year; no increase in price; stock about equal to demand. A. R.

WINNIPEG, MAN., CAN.—Trade was twenty-five per cent ahead of last Christmas but the supply of flowers was about equal to the demand; qualities good; no increase in sales for decorative stock but many more calls for flowering plants. R. A.

HARTFORD, CONN.—Prices were ten per cent higher this year than last and business increased twenty per cent. Supply equaled demand and stock was of fair quality. Violets, roses and carnations ruled. Less call for palms, more for flowering plants. D. A. S.

SPRINGFIELD, ILL.—Trade was not much greater than last year but prices were higher and stock, what there was of it, of better quality than usual at Christmas. Carnations were in special demand; increased call for palms, ferns and azaleas. L. U.

ASHVILLE, N. C.—Business showed fifty per cent increase; roses plentiful but carnations and violets short; qualities decidedly better; marked increase in calls for pink carnations and Beauties; decreased demand for plants; wonderful call for greens. I. F. C.

DES MOINES, IA.—Business this Christmas was far ahead of last, some dealers reporting an increase of sales of fully fifty per cent. The principal call in cut flowers was for carnations, violets and roses, in the order named, but the demand for holiday plants was strong. L.

POUGHKEEPSIE, N. Y.—Flowers were better in quality but less in quantity than usual at Christmas but the total of sales was not far from last year. Roses and carnations were very short and the latter were in extra demand, as were violets. Poor sale for pot plants. M. J. L.

MUSCATINE, IA.—There was splendid business the last part of Christmas week. The demand was greatest for carnations and will result in increased plantings next year. Primroses, ferns and Ficus elastica sold best among plants, but everything went on Saturday. A. S.

PORTLAND, ORE.—Christmas trade was fifty per cent ahead of last year and prices were ten per cent higher. Stock of all kinds was short. Carnations and chrysanthemums were these leaders and twice as many of the flowers could have been sold, but every customer wanted holly or mistletoe. S. J. L.

ST. LOUIS, MO.—Retailers report sales from twenty-five to seventy-five per cent ahead of last year and prices were better. There was a glut of California violets. Beauties and violets were in increased demand. Heavy increase in plant sales, particularly flowering; high prices of cut flowers seem responsible for this. R. F. T.

PARKERSBURG, W. VA.—Holiday trade was twenty-five to thirty per cent better than last year; prices not increased; stock equal to demand; quality twenty five per cent better than usual. Great call for violets, carnations and flowering plants; twice as much holly sold as last year. G. O.

OAKLAND, CAL.—Trade for Christmas was one-fourth heavier than last year and prices were somewhat higher. There were not enough flowers. Carnations were very good and enjoyed a splendid sale; good call for violets. No increase in sales of plants. Orders were liberal. H. M. S.

BUTTE, MONT.—There was a fifteen per cent increase over last year although prices did not advance. There was not one-tenth enough home grown stock. Carnations were most in demand. Kentias were favorites; there were no blooming plants on the market. The holly trade was spoiled by the produce men. L. B.

Plants Versus Holiday Cut Flowers.

Once upon a time a man had a goose that laid a golden egg and from the remarks of certain retail florists I fear that they may fail to profit by the experience of the gentleman in the Æsop narrative.

It may seem a brilliant thing to do to push the plant trade as a proper retaliation upon the growers of cut flowers who raised their prices for Christmas, but the one who, at this time, puts plants forward at the expense of cut flowers, will eventually find his profits materially decreased.

Possibly there may be some growers who went crazy over the Christmas prices, but the majority of them certainly did not, and even where prices were more than doubled the grower did not have as much profit per dozen over the actual cost of the production of carnation blooms as the retailer who bought them for $6 or $8 per hundred and sold them for $1.50 to $2.00 per dozen.

I do not know of an instance where growers more than doubled their regular prices for Christmas but I do know that if a grower of carnations can not get double the usual rates for both Christmas and Easter he might as well turn his attention and glass to plants.

The growers of first quality carnation blooms who really make a profit on this class of stock can be counted on the fingers of one's hands and if carefully sifted down they would not be hard to count on one hand. There are hundreds of growers who devote a portion of their place to first-class blooms, who, if they were to carefully estimate their expenses, would find that the receipts from these blooms fall below the actual cost of production.

It is this latter class of growers who have to depend on extra returns for the holidays in order to make both ends meet, and the retail man who is not willing to pay at least double the rates for those days should be willing to pay the grower one-third of what he receives for his stock the balance of the season, or forever hide his head in shame.

When a grower is selling a carnation which costs him almost, if not quite, two cents for $1 or $1.25 per hundred, and the retailer is selling the same carnations for seventy-five cents or possibly $1 a dozen, there is certainly more discrepancy between prices than there is at Christmas and the grower has some reason to kick; much more than the other party ever has.

Presuming that plants eventually displace cut flowers, will not the stores be the loosers? It stands to reason that competition will finally reduce prices between retailer and grower to the same low standard now existing in cut flowers, and the grower will be compelled to double the price on plants for all special occasions, the same as is now done on cut blooms. An extensive grower of plants would have the retailer under his thumb, for if he did not get his figures on these special occasions he could rent a room for a week or so and beat the retailer at his own game. Another strong point against the pushing of the plant trade into the place occupied by cut flowers is the opening there would be for the department stores.

Plants are certainly a useful adjunct at Christmas, or, in fact, at any other time, but it is to be hoped that the retailers who persistently advocate the use of plants instead of cut flowers are few in number and will never increase.

ALBERT M. HERR.

Begonia Gloire de Lorraine as a Basket Plant.

Begonia Gloire de Lorraine is shown as a hanging plant in the figure, page 677. The profusion of bloom is wonderful. The plants are grown in pans made especially for them, six inches wide and five deep, hard burnt and perforated in three places below the rim for the hanging attachment. As with many other good things, it will probably be overdone. Its propagation is easy, either by cuttings or leaves. Mine were all raised from base cuttings, induced by keeping all flowers picked after the month of March. Rooted flowering tips refuse to break, even when topped, and those allowed to grow maintain a single stemmed character. Such plants have grown nearly two feet, blooming profusely for half their length. They are well suited for center pieces in a neat arrangement of small palms and ferns for table decoration. No special culture has been given; in fact, these plants have not received the attention they deserve. Perhaps it was well so. New plants are often spoiled with too much care. By using light soil, and plenty of charcoal drainage it is almost impossible to give them too much water. They have taken a regular dose of manure water, such as is given to chrysanthemums. For good circulation of air they were set on five-inch pots. Shading was kept on until the first of October, and then full sunshine. So far only male flowers have appeared; the female blooms will come later in the season. T. D. HATFIELD.

White Ants.

Referring to F. P. Davis' very interesting article on the ravages of white ants, page 600 of the current volume, I hardly think he realizes the amount of energy which would be developed at the nozzle of his hose under a steam pressure of 100 pounds. If he will run a pipe from his safety valve out through the wall of his boiler room, raise the pressure to one-half the amount he proposes, and then open the safety valve, I think he will quickly decide that there is too big a cloud of steam to enable a man to work successfully. A better plan would be similar to the sterilizing plant of W. W. Rawson, Arlington, Mass., described on page 871 of the *Rural New Yorker* of

December 24, 1898. But before going to the expense required to fit up such a plant I would suggest an experiment which will cost comparatively nothing, and if not successful will not prevent the trial of the steam in any form he thinks best. As I understand from his article, the ants are now present in his soil. That being the case, take a tight box and place in it a quantity of soil containing the ants. Have a cover to the box and also an old blanket which has been wet. Make a hole in the soil in the box and pour into it a teaspoonful, or a tablespoonful if he takes quite an amount of the soil, of bi-sulphide of carbon. Cover quickly with the box lid and the blanket and let it rest for a number of hours. Then examine carefully, and if there are any ants alive it will probably be through an insufficient quantity of the bi-sulphide, or that the gas had an opportunity to escape, in which event the experiment can be repeated. The only care necessary is not to have any light near at hand, as the gas is very explosive. Should he find this remedy effectual he can treat the mounds of soil outside by making numerous holes and covering with a wet blanket to prevent the gas escaping. I trust he will report his results in the AMERICAN FLORIST. The bi-sulphide is inexpensive and is getting to be a favorite remedy for noxious insects. F. C. CURTIS.

Eel Worms (Nematodes).

Bulletin No. 55 of the Hatch Experiment Station, Massachusetts, gives the results of a very extensive study of these pests, and should be of great interest and value to the florist. The following is a brief resume of the bulletin:

Nematodes are small worms allied to the earth worm. Many are entirely harmless and only one species, Heterodera radicola, is known to damage plants in Massachusetts. Many of the harmless species can withstand the winter, but the one which is so harmful to florists' plants is destroyed by freezing. It may, however, easily survive in the center of compost or manure heaps which frost does not reach. It therefore follows, that if soil, manure and compost heaps are spread out so that every part becomes frozen, no danger need be feared, provided the benches are not themselves infested. It would seem that the careful cleaning and whitewashing of benches and the use of soil which has been frozen would eradicate the pest. Of course the first potting from the cutting bench should also be in the soil which had been frozen, as the planting of infested plants, or the contact of infested soil with the other would soon cause the whole bench to be infested, as the worms breed rapidly.

Infested plants usually appear sickly and gradually fade away and die. The roots of such plants are more or less covered with various galls or swellings. These are abnormal growths of the roots due to the presence of the worms, which when full grown are not much larger than the size of a pin head. The damage to the plant is not due to the feeding of the worms upon the roots, but to the fact that the flow of the sap is checked by the abnormal growth. A plant weakened by the attack of these worms is quite likely to become infested with other fungus and insect pests.

The use of chemicals is of no value as the eggs practically can not be killed by such means. The most effectual, complete and practical method of exterminating nematodes in greenhouses is by heating the soil by means of steam. A number of methods of heating soil have been described in former issues of the AMERICAN FLORIST. (See vol. ix., p. 171 and vol. xiii, p 721.) The amount of heat necessary to destroy them is 140° which is much less than has been supposed. As, however, all parts of the soil are not heated equally, it is recommended that it be heated to about the boiling point of water (212°).

New York.

THE NEW YEAR SEASON IS A DISTRESSING PERIOD FOR THE WHOLESALE CUT FLOWER DEALERS OF GREATER GOTHAM.—ANOTHER GREEK SUSPENDS PAYMENT.—SWEET PEAS ARE COMING IN.—CARNATION MATTERS.

Everybody has been wishing everybody else a "Happy New Year" but up to date there has been nothing in the flower trade to indicate any immediate realization of the good wishes thus expressed. New Year's is no longer an occasion of any great magnitude in New York but the little that might have drifted in the way of the flower people was effectually side tracked by the hard weather of Saturday and Sunday. The entire week following Christmas was disappointing but Saturday crowned the record. Violets and carnations suffered, perhaps, worse than did anything else. These flowers are essentially favorites of the transient trade and anything that keeps the public off the streets and under cover is sure to react at once on these two staples. The quantity of violets sent to this market during the week was enormous, and a break of fifty per cent on Christmas prices failed to move the big accumulation. A large part of the receipts were held over by the wholesalers until the present week, and the Greeks are getting them for what they are willing to offer. It is the worst reverse the violet business has sustained in this market for years, and the grower who nets seventy-five cents a hundred may count himself fortunate.

Another Greek has "sold out," and the wholesale cut flower district, as well as some large plant growers, are in deep mourning in consequence. Geo. Giatris has transferred his business to his brother and liabilities amounting to $22,000 with no assets is the problem that confronts his creditors.

E. Schrader is sending in flowers of a very attractive sport from Lizzie McGowan carnation. He calls it Richmond Belle. The color is a glowing pink which puts Scott into the shade, and the edges of the petals are prettily feathered with white. Julius Lang has them.

W. H. Gunther has been receiving Blanche Ferry sweet peas from E. Leuly for several weeks, and they are now coming in freely and of excellent quality for the season.

Twenty-eighth street misses the cheerful companionship this week of J. K. Allen, Howard Blauvelt and expressman Tierney, each of whom is laid up with grippe.

Some of the new fancy carnations realized fat prices for Christmas. Among the most notable were some of John May's fancy seedlings which brought $1.50 per dozen wholesale.

Visitors in town: E. G. Hill, Richmond, Ind.

SPRINGFIELD, ILL.—Brown & Canfield, Louis Unverzagt and Henry T. Phelps each performed a share in an elaborate decoration of the historic Leland Hotel for a New Year's dancing party.

Chicago.

THE LULL WHICH SUCCEEDS THE STORM.—NO STABILITY TO THE MARKET EXCEPT ON ROSE PRICES.—AMERICAN BEAUTIES SCARCE.—CARNATIONS PLENTIFUL AND VIOLETS OVER ABUNDANT.

The first week of the new year has seen poor business in Chicago, but not less than generally follows the rush of the holidays. Roses are the only item in the list that have held up and their prices are not stiff because of heavy demand, but rather because of a short supply. American Beauties, for which orders have been coming from all parts of the country, are the strongest flower in the market and for the best grades prices are not far below the holiday scale, $6 to $10 per dozen being readily obtained for the long-stemmed blooms.

Since December 30 it has been largely a matter of realizing the best possible sums for carnations, although first-class flowers are not let go at less than 2 cents. There are bargain offerings in lily of the valley, Romans, Paper Whites, tulips and callas. Harrisii are more plentiful but still command good figures. Violets have become too numerous and one house had several thousand unsold on New Year's day. Fakirs have been able to handle violets this week.

Latest reports indicate that the largest C. O. D. order sent out of Chicago at Christmas was one for $242 shipped December 22 by Reinberg Bros. This and other houses have sent out larger C. O. D.'s in the past, but not every day.

John C. Schubert & Co., believe that, although more flowers were shipped from Chicago than in any previous year, 1898 was not equally good for the retailers. But they look to 1899 with more encouragement.

M. Weiland, his son and his son-in-law each have large stocks of the Evanston carnation, which is now being introduced, and is meeting with a ready sale. Vaughan, McKellar & Winterson are pushing the cuttings for John Weiland and are booking many orders.

At its meeting last evening the Chicago Florists' Club enjoyed a smoker, very many of the members having responded to Secretary McKellar's invitation to come and assist in fumigating the club's pathway to a prosperous new year.

Immeuse quantities of spring bedding stock are being propagated, under the impression that 1899 will be a year in which everyone can afford flowers for his door yard.

L. P. Kelley has assumed the management of S. B. Winter's commission house. He is thoroughly competent to make the business even more successful than in the past.

Daybreak carnations still outnumber any other variety in this market but next season every grower may plant more of them thinking that everyone else will plant less.

Christmas brought J. B. Deamud a handsome diamond ring, which, of course, pleased him very much.

Chas. Seek, formerly packer for Bassett & Washburn, is now officiating in a like capacity for E. C. Amling.

W. H. Desforges, who has been with several Chicago retailers, is now with O. L. Baird at Dixon, Ill.

Edwin A. Kanst is ripening a good sized bunch of bananas at the Washington Park conservatories.

Among the week's visitors were Carl Hirsch, Hillsdale, Mich.; A. G. Boehringer, Bay City, Mich.; C. F. Weeks, Hot Springs, Ark.

THE AMERICAN FLORIST

Subscription, $1.00 a year. To Europe, $2.00. Subscriptions accepted only from those in the trade.

Advertisements on all except cover pages, 10 Cents a Line, Agate, $1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

Cover space sold only on yearly contract at $1.00 per inch, net, in the case of the two front pages, regular discounts applying only to the back pages.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

SUBSCRIBERS who have seen him will oblige by sending us an accurate description of the palm swindler.

THE Worcester County Horticultural Society, Worcester, Mass., has prepared a programme for ten Thursday afternoon discussions upon subjects of horticultural interest.

DR. FAIRCHILD, of the Department of Agriculture, has sailed for a tour of Africa, Asia and the South Sea Islands in search of plants of value to the people of the United States.

THE National Chrysanthemum Society (British) has pronounced the varieties Major Bonnaffon and C. H. Curtis too much alike to be shown as separate varieties in the same exhibit.

FERD. W. PECK, in his report of the space available to United States exhibitors at the Paris exposition of 1900 allots to horticulture 2,718 square feet of the total space of 210,836 feet.

THE thirteenth annual meeting of the State Florists' Association of Indiana, will be held at Indianapolis at 2 p. m., Monday, January 9, and will be opened with an address by Pres. J. D. Carmody.

THE *Gardener's Magazine* describes the new English rose Sunset as being of an apricot color in the center with the outer petals carmine on the outside, and states that it gives every indication of being a very fine winter bloomer. What a blessed relief it would be to see a bunch of such a color as this in our flower stores in place of the ever repeated Bride-Bridesmaid-Meteor-Beauty combination!

Some Recent Fires.

OWEN SOUND, ONT.—James Leslie's dwelling and greenhouse were destroyed by fire December 26, loss $2,000.

UTICA, N. Y.—Fire recently did $800 damage to the Seymour avenue greenhouse of W. T. Millgate.

TERRE HAUTE, IND.—Otto Heinl & Co. were burned out December 16 at 33 N. Fifth street, but reopened December 21 at 112 on the same thoroughfare.

SOUTH HADLEY FALLS, MASS.—Joseph Beach recently lost his greenhouses by fire, but business warrants him in rebuilding upon an enlarged scale.

RED BANK, N. J.—On December 28 an overheated boiler in L. Loeb's greenhouses caused a fire which destroyed the houses and contents, entailing a loss of several thousand dollars.

TONAWANDA, N. Y.—Frederick Knight's greenhouse was destroyed at 2 a. m. December 27 by a fire which caught from the heating apparatus. The loss is estimated at $2,000, and was partially covered by an insurance of $1,600.

Tokens of the New Year.

We are in receipt of calendars and other pictorial reminders of the fact that we have entered upon another year from Wood & Stubbs, Louisville, Ky.; John Lucas & Co., Philadelphia, Pa.; Flower City Plant Food Co., Rochester, N. Y.; Gurney Heater Mfg. Co., Boston, Mass.; Regan Printing House, Chicago, Ill.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

Alex. McLellan, Newport, R. I., registers new chrysanthemum Regina, a seedling from Silver Cloud and L'Enfant de Deux Mondes. Color, creamy white; bloom of the Frank Hardy type, a variety which it much resembles, but with no tendency to crookneck. Won Newport Horticultural Society's silver medal as best seedling of 1898.

WM. J. STEWART, Sec'y.

Greenhouse Building.

Sharon, Pa.—John Murchie, two story boiler house.

So. Hadley Falls, Mass.—Joseph Beach, rebuilding range of houses.

Brunswick, Me.—John McManus, two houses.

Chicago, Ill.—Wietor Bros., 200,000 feet of glass.

Roslindale, Mass.—A. Leuthy, one greenhouse 10x150.

Chestnut Hill, Pa.—John T. Morris, one conservatory 34x51.

Catalogues and Cut Flower Price Lists Received.

Iowa Seed Co., Des Moines, Iowa, seeds; Lord & Burnham Co., Irvington-on-Hudson, N. Y., heating and ventilating apparatus, greenhouses; John Peed & Sons, West Norwood, London, seeds; H. Henkel, Darmstadt, Germany, plants; W. A. McFadden, Cincinnati, Ohio, cut flowers; Cincinnati Cut Flower Co., Cincinnati, Ohio, cut flowers; Holton & Hunkel, Milwaukee, Wis., cut flowers; Ellis & Pollworth, Milwaukee, Wis., cut flowers.

Publications Received.

MUSTERBLATTER DER BINDEKUNST.—By J. Olbertz, Erfurt, Germany.

VINEGAR ADULTERATION.—By W. A. Withers and J. A. Bizzell.—North Carolina Exp. Sta., Raleigh, N. C.

REPORT OF THE POMOLOGIST.—By G. B. Brackett.—Department of Agriculture, Washington, D. C.

EARLY BOTANICAL VIEWS OF PRUNUS DOMESTICA.—By F. A. Waugh. Reprinted from the *Botanical Gazette* of December, 1898.

THE EUROPEAN AND JAPANESE CHESTNUTS IN THE EASTERN UNITED STATES.—By G. Harold Powell.—Delaware College Exp. Sta.; Newark, Del.

Roses Dropping their Leaves.

ED. AM. FLORIST:—Will you kindly inform me what is the cause of my rose leaves dropping off? The roses are making a vigorous, healthy growth, but for the past three weeks the old leaves are turning yellow and falling off very badly. The roses were planted early in June, making a good growth all summer. In September I mulched them two to three inches deep with well-rotted cow manure (there was no manure put in the soil at planting time) and put on a light top dressing of soil and firmed it to keep the manure from drying up. It is now thoroughly rotted and a mass of young feeding roots. A prominent carnation grower saw them two days ago and said the dropping of leaves was caused by the mulch being too heavy. Would this old manure cause it at this time?

B. B. M.

Your correspondent gives no idea of the depth of bed, drainage, etc., all of which are necessary in forming an opinion as to the cause of his trouble. It is seemingly a case of overfeeding—too much heavy rich food, and it is probable that the bed has been kept too wet. If the plants are rooted in the soil and in the mulch as well the balance of root action is disturbed and the dropping leaves are the result. Another common cause of leaf dropping is dampness on the foliage. There is especial danger from this in the fall mornings when, with the temperature at 60° outside and no fire, the leaves will be found dripping with moisture, and it takes but few repetitions of this condition to do the mischief. I would advise "B. B. M." to be careful and not water too much. Keep a uniform temperature and don't get discouraged as the roses will probably be all right by February and give a good crop.

LAWRENCE COTTER.

The Ice Box Versus the Vault.

From reading the effusion of "Pro Bono Publico" in your issue of December 31, I feel very much like Euclion's cock, so celebrated by Plautus and Ausonius, which rooster having, by diligent scratching, discovered a treasure, straightway had his hide well curried.

The Battles booklet, which has raised all this pother, was reviewed in the columns of the AMERICAN FLORIST because it was a piece of good advertising for a retail florist. "Pro Bono Publico" ignores this altogether, and sets up a man of straw and then proceeds to wollop the straw effigy to his own entire satisfaction. The booklet never raised the point as to whether an ice box was an improvement on a vault for keeping flowers. As I understand the matter, Mr. Battles' theory is the rapid handling of flowers, a method which is superior to both vault and ice box. Mr. Battles prides himself on using the vault or ice box as little as possible. That being the case, a wise retailer would have taken the pointer, if there was anything in it, and said nothing. In these days of keen competition, it is important to know just what your competitor is doing. The great Napoleon won his remarkable victories over the enemy because of his accurate knowledge of what the enemy would do under given conditions. When he had found this out he was always ready to trump the enemy's trick, and generally won the day. What would one have thought of Napoleon if a courier had brought him an important piece of information regarding the enemy, if the said Napoleon should have turned around and lambasted the said courier because the enemy was not doing something else that Napoleon expected him to do?

"Pro Bono Publico" then proceeds to fire some billingsgate at somebody) it is not very clear who) using a number of expressions about natural gas and swelled heads, which seem entirely outside of the question altogether. I am afraid that "Pro Bono Publico" must measure some of his competitors according to his own shoe sole. If he has a touch of the terrible malady of swelled

head himself, he will be unable to see other people through anything but swelled head spectacles.

If any good is to be gotten from public discussion of points in the conducting of business, the said discussion must be carried on with the utmost good humor and good sense. The introduction of billingsgate is an unpardonable crime. It is a resort of that numerous variety of the genus homo which, when it runs short of argument, runs to the brick pile. "Pro Bono Publico" evidently had no confidence in the strength of his argument about the ice vault, therefore he made a rush to the brick pile as a wind up.

Another thing that "Pro Bono Publico" does which is "an evidence of weakness rather than of strength," is the writing under an assumed name, or nom de plume. This practice has always struck me as synonymous with shooting a man from behind a hedge. The anonymous writer and the anonymous poisoner and assasin belong very nearly to the same category. If a man has anything to say to which he is afraid to put his name, it is a pretty good sign that that "say" should not be said. Let "Pro Bono Publico" stand up like a man and say what he has to say courteously and he will receive a much more respectful hearing than he will if he sneaks behind a nom de plume to say it.

G. C. WATSON.

Live Steam in Greenhouses.

It commonly occurs to the mind of some beginner in greenhouse work that inasmuch as a moist atmosphere is supposed to be death to the red spider, the escape of live steam into the greenhouse from the heating pipes would be an excellent means of subduing this pest. The result of his meditations on this subject usually leads him to send an inquiry to his paper regarding the feasibility of the scheme. The answer given is usually about as follows: "It would probably kill the spider, also the plants. Better not try it."

An accident that occurred last March in the greenhouses here has given us valuable evidence on the subject. In one house several ¾-inch pipes drop from the overhead feed pipe (steam) to tanks 6x3x2 feet, located beneath the central benches. The valve on one of these pipes had been opened during the day when the steam was down; the night fireman maintained a steady pressure of steam all night but failed to visit this house at all until 6 a. m. At that time the tank which had been filled with water the previous afternoon, was now empty; the steam was rushing out of the ¾ inch opening under five pounds pressure as it had undoubtedly done all night and the temperature of the house was between 80° and 90°. This was moist air with a vengeance! According to established rules every well behaved red spider should have decently perished. When I visited the house between seven and eight o'clock every plant was drooping with moisture; a lot of tamarix plants had collected so much moisture in their finely cut foliage that the branches rested on the ground.

As to the effects of this steaming: Out of several hundred plants, coleus, alternanthera, canna, geraniums, roses, carnations and a mixed lot of greenhouse plants, not one suffered any material injury so far as could be observed. Neither did the red spiders! The water (condensed steam) had settled largely on the upper surfaces of the leaves and the spiders had found a safe shelter on the under surfaces. Although somewhat surprised and a trifle moist they were actively at work before noon and continued to thrive until destroyed by other means. In the light of this and other experiences with excessive moisture in greenhouses I am led to believe that the red spider will thrive equally as well in a moist as in dry atmosphere if it is only hot enough. They possess surprising activity and tenacity but are little above microscopic in size and we combat them by forcibly spraying the plants; that is, we dash them off and before they have fairly reorganized their domestic arrangements we are at it again with the hose.

FREDERIC CRANEFIELD.

OBITUARY.

MRS. PROTHERS.

Mrs. Fredericka Prothers, widow of the late William Prothers and mother of Mrs. Samuel Goldring, Albany, N. Y., died on December 27, 1898.

SILAS FISH.

Silas Fish, the oldest resident of Sandwich, Mass., and for a number of years in the florist business there, died on December 31, 1898, aged 90 years.

W. L. BRETTHAUER.

William L. Bretthauer, of Evergreen, Bradford county, Pa., died on New Year's day. He was twenty-four years of age and a very popular young man. As a florist and gardener he had built up quite a nice business.

RICHARD DAVIS.

One of the old and most respected citizens of Utica, N. Y., died December 23. Richard Davis was born in North Wales, May 1, 1824, and was for many years a weaver but embarked in the greenhouse business in 1889, continuing in it to his death. He came to America in 1845 and since 1848 had resided in the same house in Utica. He is survived by two married daughters.

MILTON, N. Y.—C. A. Valentine will retire from business because of illness in his family.

SARATOGA SPRINGS, N. Y.—T. S. Totten has a seedlings carnation which he thinks has a future. It has been named Young America. Stems strong and color deep pink.

GALESBURG, ILL.—I. L. Pillsbury has leased his greenhouses at Macomb, Ill., to Fred R. Thornton, who has been employed in a greenhouse in Galesburg for some time. He took possession the first of the year and will grow a general stock of plants and cut flowers, and some for the wholesale trade.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1899 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By young man in greenhouse or store. Good references and life experience. E. A. CLARK, 3501 Wabash Ave., Chicago.

SITUATION WANTED—By first-class rose and carnation grower, capable of taking charge. Fine references. Address J H M, care Am. Florist.

SITUATION WANTED—As foreman by first-class all-round man, age 37, single; private or commercial. Refs. first-class. EXPERIENCE, care Am. Florist.

SITUATION WANTED—By thoroughly practical gardener; 12 years' experience in all departments. First-class testimonials. GAZABO, care Am. Florist.

SITUATION WANTED—By an experienced rose grower to take charge of commercial place, in Chicago preferred. Address ROSE, care American Florist.

SITUATION WANTED—By a competent florist; 9 years' experience in growing cut flowers and plants generally. JAMES SMITH, 17 Rush St., 32d Ward, Pittsburg, Pa.

SITUATION WANTED—By gardener for hothouses and lawn; foreign and American unveilings; vegetables, fruit garden, grapery, etc. Best references; married. P. RASMUSSEN, 201 Hervey St., Chicago.

SITUATION WANTED—By two young men, good hustlers (potters); understand growing palms, ferns, cut flowers; wish good, steady position from Jan. 20 on private or commercial place. Address AXEL JONSON, 531 Balmoral Ave., Chicago.

SITUATION WANTED—As foreman for a large commercial place. Thoroughly experienced in growing roses and carnations for the wholesale trade; single, 32; Ohio preferred. Salary, $40 per month. Address GROWER, care American Florist.

SITUATION WANTED—At once by practical grower of cut flowers and plants; 12 years' experience. Also had good success growing mushrooms and cucumbers under glass. Can take charge of place. Married, age 30. Best of references. State wages. Address H. FISHER, Cudahy, Wis.

SITUATION WANTED—By experienced grower of cut flowers and all sorts of pot plants, German, age 35, understands hotbeds, can also grow vegetables under glass, as well as mushrooms. Capable of taking charge of any large establishment. Address CHAS. SCHULZ care F. Neumann, 129 McClure Ave., Allegheny, Pa.

SITUATION WANTED—As I am about closing up my down-town store, would be pleased to recommend the young man who has had charge to anyone in need of a good man. He is thoroughly competent in all branches of floral art. His experience has been with first-class florists in New York and Pittsburg. Address E. J. PADDOCK, 1317 Euclid Ave., Cleveland, O.

WANTED—Rapid propagator for carnations; none other need apply. State wages expected. CHICAGO CARNATION CO., Joliet, Ill.

WANTED—A young man, German preferred, to assist in greenhouse work. State wages. HENRY EICHHOLZ, Waynesboro, Pa.

WANTED—Salesmen to sell flower pots as a side line on commission. CAMBRIDGE TILE M'F'G CO., Covington, Ky.

WANTED—Two handy, quick young men of good character and some experience. Write, stating wages expected, etc. A. DONAGHUE, Omaha, Neb.

WANTED AT ONCE—A good, all-round florist, single man, one who knows how and is willing to work. State lowest wages with board and lodging. C. P. DOW, Laconia, N. H.

WANTED—A night fireman to attend two steam boilers. Wages, $8.00 a week. State nationality. Address with references K, care American Florist.

WANTED AT ONCE—A good all-round florist, one who knows how and is willing to work. State lowest wages with board and lodging. W. H. WRIGHT, 204 1st East St., Vicksburg, Miss.

FOR SALE—Three greenhouses, with dwelling house; hot water heating; good retail business. Easy terms. Cause for selling, ill health. Address H. LORENZ, Cor. State and Marshall St., Mankato, Minn.

TO LEASE—A first-class retail stand 5000 feet of glass; new in city. Will net good man at least $1000 per year. Must buy stock, about $500. Reason for selling, poor health. Address ILLINOIS, care Am. Florist.

WANTED—On commercial place, a gardener who understands the growing of bedding plants, also pot plants, for forcing; none need apply without good references. Address C. K., 161 A, 23d St., Brooklyn, N. Y.

WANTED—No. 1 grower of roses and carnations to take charge of a block of houses as second foreman on a large commercial place; must be up to-date grower; married man preferred. Steady job to right man and a good opening; would prefer a Chicago man or from that region. Wages, $12.00 per week. Address F, care American Florist.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

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Nine (9) greenhouses, about 21,000 feet of glass, well stocked with Roses and Carnations in first-class condition, also large stock of Bedding Plants; houses heated with steam, a new boiler; one heavy wagon and one spring wagon. Also 2½ acres of land, or 14 lots. In a flourishing town of 8000 inhabitants, situated in central Ohio; no competition. Part cash; the rest on first and second mortgage. Address

GREENHOUSES, care Am. Florist.

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Cincinnati.

NEW YEAR CHRYSANTHEMUMS SOLD WELL.—AMONG WITTERSTAETTER'S SEEDLING CARNATIONS.—CLUB ELECTION IN SIGHT.

New Year's trade was about the same as last year with no special call for anything in particular. A few late chrysanthemums were in market from Gus. Adrian, and sold fairly well. The supply of cut flowers was equal to the demand.

A trip to R. Witterstaetter's reveals the fact that he still takes great interest in carnations. Among those of promise at his place is a bright scarlet, flower very large, calyx and form all that could be desired, blooming qualities equal to Portia, which will be a welcome addition to the list of scarlets. He has a very large white, flowers fringed and fragrant, measuring three and one-half inches in diameter, now in its second crop and showing up well. Another striking one is of a bright rose color; the flower is immense in size and comes close to John Thorpe's prediction. All these will be heard from at the February meeting of the American Carnation Society.

Of last year's novelties Mr. Witterstaetter speaks favorably of New York, which he has had in bloom since November. Psyche has behaved very well and more of it will be grown next year. Gold Nugget stands ahead of Pingree in quantity but Pingree makes up in quality; both are good and will be grown extensively. Evelina as grown here is far ahead of any white.

Saturday evening, January 14, will be meeting night for the Cincinnati Florists' Society and election of officers for the ensuing year will take place.

H. SCHWARZ.

San Francisco.

GROWERS ORGANIZE TO DEAL WITH THE PROBLEMS OF THEIR BUSINESS.—OFFICERS.—BANQUET.

On December 16 the leading growers of cut flowers in San Francisco county organized the Growers' Protective Association of San Francisco, for the purpose of dealing with the various problems which confront their industry. The following officers were chosen: President, Alphonse Pottet; vice-president, George Simons; secretary, John Shepard; treasurer, Edmond McLellan.

Following the adjournment a very fine dinner was served. The following members of the trade were present:

Alphonse Pottet, Geo. Simons, Edw. McLellan, S. J. Shepard, G. Clack, Felepo Marterello, P. Boneou, Jos. P. Ladick, Dominic Figonii, J. Young, Geo. Karman, C. Crockford, Messrs. Nethoe, Domoto, Haselbacher, Cook, Nespoli, Grallert, Magomen, Gardiner and Barbong.

METEOR.

Worcester, Mass.

Flowers have recovered from the furious onslaughts of Christmas week and good stock is obtainable in sufficient quantities. Trade has been fairly good but there was the usual reaction that always follows Christmas and Easter. Violets still remain scarce and sell at $3 per hundred.

Generally the business on the first day of the year amounts to considerable, but this year was an exception to the rule as there was absolutely no extra trade. The only reason I can supply is that of the holiday falling on Sunday. A. H. L.

KOKOMO, IND.—W. W. Coles has added one greenhouse 10x100 to his establishment.

WESTERN PENNA. HEADQUARTERS FOR EXTRA FANCY STOCK.

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CINCINNATI, Jan. 5

Roses, Beauties, select	40 00@50 00
" " medium	20 00@30 00
" Brides, Bridesmaids	6.00@ 8.00
" Meteors	8 00@10.00
" Perles	5 00@ 6 00
Carnations	2 50@ 4 00
Violets	1 50
Lily of the valley	4.00
Smilax	12.50
Adiantum	1.00
Asparagus	50.00
Narcissi, Romans	3.00

ST. LOUIS, Jan. 5.

Roses, Beauties	10 00@75 00
" Brides, Bridesmaids, Meteors	4.00@15.00
" Perles	3.00@10.00
Carnations	3.00@ 5 00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Violets, California	1 00
" single	.30
" double	1.00
Roman hyacinths	4 00
Narcissi, Paper White	5.00
Callas	12 50@15 00
Harrisii	15 00
Valley	5.00

MILWAUKEE, Jan. 5

Roses, Beauties, long, per doz.	3 00@ 6 00
" " medium " "	2 00@ 2.50
" " short " "	1.00@ 1.50
" Brides, Bridesmaids	4 00@ 8.00
" Perles	3 00@ 7.00
" Meteors	4.00@ 8.00
" Kaiserins	6 00@10.00
Carnations, fancy	2 00@ 4.00
" good stock	1 50@ 2 00
Smilax	12.50@15 00
Adiantum	.75@ 1 00
Asparagus	75.00
Violets	1 00@ 1.50
Callas	15.00@20 00
Harrisii	20.00
Romans, Paper Whites	3.00

PITTSBURG, Jan. 5.

Roses, Beauties	12.00@50.00
" Brides, Bridesmaids	4.00@12.00
" Meteors	6.00@15.00
" Kaiserins	6 00@15.00
" Niphetos, Perles	3 00@ 6.00
Carnations, short stems	1.00@ 1 25
" long "	1 50@ 3.00
Violets	.75@ 2 50
Lily of the valley	4 00
Smilax	12 50@15 00
Adiantum	1.00
Asparagus	50.00

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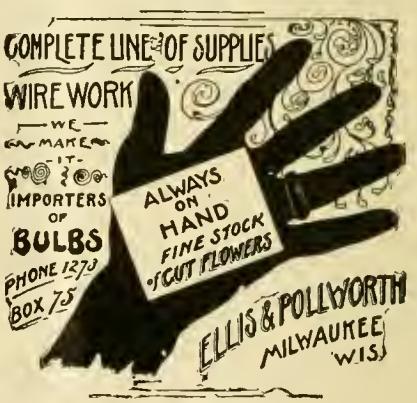
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Extra long stem	per doz.,	$6 00
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20 "	"	3.00
15 "	"	2.00
12 "	"	1.50
8 "	"	1.00
METEOR	per 100,	6.00 to 8.00
BRIDESMAID	"	6.00 to 8.00
BRIDE	"	6.00 to 8.00
PERLE	"	5.00 to 6.00
CARNATIONS	"	3.00
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CHICAGO, Jan. 6.

Roses, Beauties, extra long, per doz	6 00
" " 24 inch " "	4 00@5 00
" " 20 " " "	3 00
" " 15 " " "	2 00
" " 12 " " "	1 50
" " 8 " " "	1 00
" Brides	6 00@ 8.00
" Bridesmaids	6 00@ 8.00
" Perles	5.00@ 6.00
" Meteors	6.00@ 8 00
Carnations	3 00
" fancy	4 00
Lily of the valley	4.00@ 5.00
Adiantum	.75@ 1.00
Common ferns	.15
Smilax	12.00
Asparagus	60.00@100.00
Violets	.75@ 1 00
Romans, Paper Whites	2 00@ 4 00
Callas	15 00@50.00
Harrisii	15 00@20 00
Bouvardias	1.00@ 2.00

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Roses, Teas	10.00@12.00
" " extra	12.00
" Beauties, extra per doz	9.00
" " firsts " "	6 00
" " seconds "	4.00
Carnations	3.00@ 5 00
Lily of the valley	4.00@ 6 00
Asparagus plumosus	50 00
" Sprengerii	50.00@75.00
Smilax	15.00@20.00
Violets, double	1.00@ 1 50
Narcissi, Roman Hyacinths	4 00

BOSTON, Jan. 4.

Roses, Beauties, best	40.00@50 00
" " medium	20.00@35 00
" " culls	5.00@10.00
" Meteors	8.00@15 00
" Brides, Bridesmaids	8 00@12.00
Carnations, ordinary	1.50@ 2 00
" fancy	3 00@ 6 00
Lily of the valley	3.00@ 4.00
Violets	.75@ 1 00
Mignonette	2.00@ 6.00
Harrisii	12 00@15 00
Romans, Narcissi	1 50@ 2 00
Smilax	10.00@12.00
Asparagus	50.00
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" " culls	2.00@ 5.00
" Bridesmaids, Brides	4.00@12.00
" Meteors	6.00@12.00
" Morgans, Perles	4.00@ 8.00
Carnations	1.00@ 2.00
" fancy	2.00@ 4.00
Violets	.75@ 1.00
Lily of the valley	2.00@ 3.00
Roman Hyacinths, Narcissi	1.00@ 1.50
Harrisii	10.00@15.00
Mignonette	2.00@ 8.00
Cattleyas	35.00@50.00
Cypripediums	6.00@ 8.00
Smilax	10.00@12.00
Asparagus	40.00@50.00
Adiantum	.50@ .75

BUFFALO, Jan. 5.

Roses, Beauties	5.00@75.00
" Brides, Bridesmaids, Meteors	4.00@15.00
" Perles, Niphetos	3.00@ 8.00
" Kaiserins	5.00@12.00
Carnations, ordinary	1.50@ 2.50
" fancies	3.00@ 4.00
Lily of the valley	4.00@ 5.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	1.00@ 2.00
Romans, Paper White	3.00@ 4.00
Stevias	.75@ 1.00
Harrisii	20.00@25.00
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AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

CHICAGO.—Alex. Rodgers is no longer with the Illinois Seed Co. but is in business for himself at 32 Traders Building. The Illinois Seed Company continues as usual with Wm. S. Gilbraith, president.

DOLLAR a pound onion seed prices are shown in the first early seed catalogues now arriving. Seedsmen do not take a sordid view of the new year, but will continue to work for glory rather than profit.

NEW YORK.—The scarcity of beans seems more pronounced than was anticipated and some varieties are not to be obtained at any figure. Lilium auratum is in great demand for export and the larger sizes are all sold out. Tuberoses, first size, are wanted but the supply seems limited.

The Rocky Ford and Netted Gem Musk Melons.

ED. AM. FLORIST:—Replying to your inquiry as to the relation between Rocky Ford and Netted Gem musk melons, I would say that I think the Netted Gem was first described in a seedsman's catalogue in 1881, but I have no copy of the book and so cannot say just what the description was. In 1883 I find it described in four catalogues; in one of these it is said to be a perfect globe, in two to be globular and in one the shape is not mentioned though in the accompanying illustration it is shown as being distinctly long oval. The other two illustrations of the year show it as short oval or nearly round. In 1888 I find it described in seventeen catalogues; in five it is described as a perfect globe, or as globe shaped; in six as nearly round, in one as perfectly round and in five the shape is not given though in two of these the illustrations show it as long oval, and of the eight different illustrations published in these seventeen catalogues five show it as short oval and three as long oval. In 1898 I find it described in twenty-three catalogues; in five of these as a perfect globe, or globular; in one as round, in three as nearly round and in five as oval while in one both round and oval stock is offered and in eight the shape is not given. Of the illustrations three are short oval, or nearly round, and seven distinctly long oval. I never have seen a cut of Netted Gem which shows the fruit as round or globular. In several catalogues of both 1888 and 1898 stocks are described and offered under other names which would seem to be identical with the long oval type of Netted Gem.

I believe the facts are that as first sent out the stock of Netted Gem was made up of two very distinct types, one a round or very nearly round fruit with little netting and ripening very early with a tendency to become distinctly yellow at maturity. The flesh of these melons was not very firm nor of uniformly high flavor, though often very sweet. The other type did not ripen quite so early, was much longer, being long oval shaped, was decidedly netted and had only a slight tendency to yellow at maturity. The flesh was very firm, thick and uniformly of high flavor. This longer type has been generally selected and grown to the exclusion of the other until now most of the stock seed sold as Netted Gem, even by those who describe the sort as round, is of this shape and character and the Rocky Ford melon as described to me by the largest and best growers there, and as I have seen it growing and on the markets, is simply this stock of the old Netted Gem. I think the history of this sort as I have given it affords a good illustration of the defects of our system, or want of system, in describing and identifying sorts and the desirability and the advantage it would be to seed dealers and users if a minute, accurate and universally accepted statement of just what constitutes the type indicated by our varietal names.

As to the quality of the melons grown in the vicinity of Rocky Ford, I may state that in 1896 and 1897 the finest melons I found on the market were from that region, but in 1898 I tested a great many fruits there, others which I found on the market and said to be from there, and they were certainly inferior in quality to most of the Netted Gem grown in Michigan, and fruits grown in Michigan from the choicest seed of the most careful growers in Rocky Ford were in no way superior to fruits produced from Michigan grown seed of Netted Gem.

WILL W. TRACY.

Pittsburg.

THE NEW YEAR STARTS IN WELL AT THE SMOKY CITY.—MUCH ILLNESS AMONG THOSE IN THE TRADE.—PERSONAL MENTION.

New Year's business was good for this locality, and the outlook for a good trade the first part of 1899 is very bright. Prices are somewhat lower than during the holidays but not a great deal, as stock is not over-abundant, although sufficient for the present demand.

Randolph & McClements have been very busy with the Christmas and New Year's trade and are well satisfied with the amount. Mr. McClements has been unwell for over two weeks, but managed to be about notwithstanding. They have moved their office to the rear of the display and workroom, by this change adding about one-third more space to the latter and improving the appearance of their place very much.

Harry F. Baxter reports business with him as pretty fair. He put up a very handsome and extensive decoration a few days ago, at which each room was decorated with a different rose. Mr. Baxter's wife and some of his help have been ill with the grip, but are slowly recovering.

Fred. Burki and several of his best men, L. I. Neff, Mrs. Neff and Julius Ludwig, have each been sufferers with the prevailing influenza. REGIA.

St. Louis.

SUPPLIES OF STOCK EXCEED THE PRESENT DEMAND.—CHANCES THAT VIOLETS WILL BE AN OVER STOCK ERE LONG.

At present writing the demand and extraordinary rush that prevailed during Christmas and the week following shows signs of abatement. Stock has increased considerably in wholesalers' hands, coming in much more freely than it did last week and being of about the same quality. To-day is the first time that prices have broken since Christmas, and the quotations on all stock are down.

Bulb stock is increasing in quantity, and there is not enough demand to clean up each day's receipts. Harrisii lilies are coming in much more freely, and are selling at 15 cents.

Violets are showing the first indication of a break in price, having dropped from $1 to 75 cents per 100. The area planted to violets this year is much greater than last, and it is freely predicted that towards spring or in the late winter season, when stock commences to cut plentifully, they are going to be badly overstocked.

We have seen in town this week C. H. Foreman, of Louisiana, Mo. R. F. T.

LOGANSPORT, IND.—Mrs. O. G. McCormick has opened a flower stand at W. H. Thompson's, Thirteenth and Elm streets.

RÖLKER'S FLOWER SEEDS!

SPRING BULBS.

☞Write for 1899 Catalogue to.....

August Rölker & Sons, 52 Dey Street, New York.

Not Talk But Work

Printed talk or spoken talk would never have built up the immense **Iron Age** business. It's the work that's behind the machines and the excellent work they do in the field and garden that sells them in increasing numbers every year. Our success is built on work—not talk. See an **Iron Age** machine at work and it will talk for itself. It does the best work in the least time. The latest

Iron Age Implements

are described in the handsome **Iron Age Book** for 1899 which we send free. The **Iron Age Hill and Drill Seeder** has a wheel 16 inches high with a two-inch tread. Opening plow is clog-proof, instantly adjustable in depth. The hopper holds 4 quarts and is close to the ground, making accurate spacing possible. Can be changed instantly from a row drill to a hill dropper. Patented cam index regulates flow of seed. For particulars address

BATEMAN MFG. CO., Box 184 Grenloch, N. J.



When writing mention the American Florist.

S. B. WINTER,

Commission Handler of HIGH GRADE CUT FLOWERS.

21 Randolph St., CHICAGO.

December 31st, 1898.

Announcement!

I AM pleased to announce that Mr. Lawrence P. Kelly, who has for the past ten years been connected with the wholesale commission trade of Chicago, for several years with Messrs. Kennicott Bros'. Company, on January 1st, 1899, assumes charge of my business, located at the above number.

Owing to the fact of Mr. Kelly's long acquaintance in this line and his complete knowledge of cut flowers, you can be assured of the best attention to your orders and the choicest stock which the market affords at moderate prices.

Hoping for at least a share of your esteemed patronage and wishing you a happy and prosperous New Year, permit me to remain

Yours respectfully,

S. B. WINTER.

The
Packing of
Cut Flowers
In a manner
To arrive
In good condiiion
When shipped
A distance
Is an
"ART IN ITSELF."
We claim
To know
That "ART."
A trial order
Will convince
You.

Consignments
Solicited
From growers of
Roses, Carnations, etc.

A complete stock of
Florists' Supplies,
Wire Work, Etc.,
At right prices.

IMP.

Grow!

FLOWERS and **planta** grow vigorously & quickly and luxuriantly with that easy-to-use, safe, economical fertilizer—

The Imperial Liquid Plant Food.

It furnishes ideal nourishment from the very *start*. Absolutely convincing testimonials about the "Imp," booklets and prices for a postal to

EASTERN CHEMICAL CO., MFRS.,
620 Atlantic Avenue, Boston, Mass.



..TUBEROSES..

We are **Growers by Contract** of nearly a million Tuberose Bulbs for home trade and export, which are cured and shipped under the supervision of experienced men in our own employ. We supply well cured, carefully handled stock, free from disease so prevalent in the cheap cured commission bulbs.

	Per 100	1000
EXCELSIOR PEARL, dwarf, first-class, strong bulbs, Telegraphic word "Modern"	$1.10	$8.50
EXCELSIOR PEARL, dwarf, medium, excellent mailing size, Telegraphic word "Militia"	.85	5.50
TALL DOUBLE, first-class, strong, Telegraphic word "Malvern"	1.25	8.50

	Per 100.		Per 100
LILIUM Auratum	7- 9-in.,	$4.00	*SPIRAEA Japonica* $4.00
" "	9-11-in.,	6 50	" *Compacta Multiflora* 6 50
" "	11-13-in.,	10.00	*LILY OF THE VALLEY, "Premium" Brand* per 1000, 12.00
" *Speciosum Album,*	7- 9 in.,	5 00	*DIELYTRA SPECTABILIS,* per 100, 9.00
" "	9-11 in.,	6 25	
" " *Rubrum,*	7- 9 in.,	3 75	
" " "	9-11 in.,	5.50	

Write for Prices on Quantities of above.

CHICAGO. **VAUGHAN'S SEED STORE,** NEW YORK.

I HAVE A LARGE STOCK OF
CLEMATIS

2 and 3-year old, extra strong, field-grown plants, finest sorts (with 30 per cent. Jackmanni), Henryi, Batemunni, Duchess of Edinburg, Gypsy Queen, etc. Price, $10.50 per 100, $100.00 per 1000. 1b. id., without Jackmanni, $8.50 per 100, $80.00 per 1000. Clematis, 1-2 year cultivated, in 5-6 inch pots, 40 per cent Jackmanni, $9.00 per 100, $80.00 per 1000; without Jackmanni, $8.00 and $75.00. References requested from unknown correspondents.

J. GROENEWEGEN,
Boskoop, Holland.
Mention American Florist.

THE BOSTON FERN From $5 per 100 and $40 per 1000 to $1 each
A SPECIALTY. **L. H. FOSTER,**
45 King Street, DORCHESTER, MASS.

JUST RECEIVED FROM JAPAN IN FINE CONDITION.

	Per 1000		Per 1000
Lilium Auratum, 7 to 9 inches at	$30.00	Lilium Speciosum Album, extra size, at	$100.00
" " 9 to 11 " at	50.00	" " Rubrum, " at	60.00
		" " Melpomene, " at	100.00

☞ **We have still left a few thousand of our WHITE ROMAN HYACINTHS, 12 to 15 centimeters, which we offer to first comer at $10.00 per 1000.**

J. M. THORBURN & CO., 36 Cortlandt Street, New York.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

A. L. BROOKE, Pres.; E. ALBERTSON Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

JOSEPH J. BEACH is enlarging his nursery at South Hadley Falls, Mass.

THE J. Van Lindley Nursery Company has recently been incorporated at Pomona, N. C.

J. M. BACON, DeWitt, Ga., has fifty acres of pecans and will this year market many tons of nuts.

BOLIVER, N. Y., has invested $12,000 in a sixteen acre park which will be improved in the spring.

EXECUTIONS aggregating $1,600 have been levied against Charles Little, successor to W. S. Little & Son, Rochester, N. Y.

PROF. L. H. BAILEY declares that the San Jose scale is by no means the menace to apple growing that is the codling moth.

GEO. W. SALLEE is making large plantations of nursery stock on the grounds of the St. Louis Country Club, at Clayton, Mo.

THE Maple Grove Nurseries, St. Thomas, Ont., is placing large numbers of apple seedlings in the upper peninsular of Michigan.

PROF. J. L. BUDD is devoting his time and strength to the revision of Charles Downing's great work upon the apples of North America.

J. WRAGG & SONS, Waukee, Ia., have printed on their envelopes: "Aye, keep plantin' a tree, Jock. It will be growin' while ye're sleepin'."

GOVERNOR TANNER, of Illinois, has asked a committee of the State Horticultural Society to prepare a San Jose scale law for his legislature.

IT IS announced that the Messrs. Rump, the largest fruit growers in Georgia, will set 1000 acres to fruits at Evergreen, Ala. Peaches will be planted this spring on 200 acres.

A. W. BRYANT and L. R. Bryant, the Princeton, Ill., nurserymen, have been elected secretary of the Northern Illinois Horticultural Society and the Illinois Horticultural Society, respectively.

A BULLETIN on San Jose scale by H. P. Gould, now in press, will treat in detail of experiments which proved conclusively that kerosene and water, one part to four, will destroy every insect without injury to the plant.

MINNESOTA pays a bounty of $2 40 per acre to those who plant and grow trees and the disbursement for 1898 was $19,553.68, divided among 2,800 persons and representing a reward for the culture of 8,147 acres of trees.

JOHN PRYNE, of Grand Rapids, Mich., is defendant in several suits for damages. Complainants allege that he misrepresented peach trees which he sold, but Mr. Pryne denies this and declares that the actions are malicious.

DESMOINES, IA.—David Smeaton has brought suit against Judge C. C. Cole, claiming $6,000 damages for loss to his florist business because of legal actions n 1892 which he thinks he can prove to have been inspired by malice.

Detroit.

THE CONVENTION CITY FLORISTS ENJOYED A VERY MERRY CHRISTMAS AND A HAPPY NEW YEAR.—GOOD TRADE THE CAUSE OF IT ALL.

All Detroit florists report a successful holiday season. The wholesale men sold out of everything and all were short of carnations. All our growers will hunt for good reds for next year. Frank Holznagle brought in some very fine roses, Brides, Bridesmaids and Woottons, and John Carey, of Mt. Clemens, sent extra Meteors.

George Leadley, J. F. Sullivan and B. Schroeter each report greatly increased calls for carnations, American Beauties and violets in cut flowers and for all kinds of blooming and decorative plants. Messrs. Sullivan and Schroeter complain that wholesale prices were too high to leave a fair profit for the retailer. Each will have larger stocks of azaleas, primroses, poinsettias, cyclamens, palms and ferns for next year.

John Breitmeyer & Son experienced a splendid Christmas trade. They, too, found unprecedented activity among plant buyers but also sold all the Beauties, Meteors, carnations and violets they were able to procure. They had a church wedding decoration which used many flowers and great quantities of green.

President Harry Balsley, of the park commission, is planning a banquet for city officials for the purpose of discussing appropriations.

Miss Anna J. Shultie has resumed charge of C. H. Michell's cut flower department. She occupied the same position for six years prior to a year and a half ago. R. F.

GALESBURG, ILL.—I. P. Norton will open a florists and undertaking establishment at Abingdon, Ill.

AZALEA INDICA.

Superb stock; to clear out a later consignment, we offer:

8-10-inch	per dozen,	$3.50;	per 100,	$25 00
10-12-inch	"	4 25;	"	32.00
12-14 "	"	5 50;	"	42.00
14-16 "	"	6.50;	"	52.00

SEND ORDERS QUICK.

Lil. Auratum, Rubrum, Album ready.

Special offer Lil. Longiflorum, 7-9-in., per 100, $3 net.

H. H. BERGER & CO., 47 Barclay Street, New York.

(ESTABLISHED 1878.)

HARDY

Herbaceous Perennials

THE MOST COMPLETE STOCK IN AMERICA.

PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

JACOB W. MANNING,

The Reading Nursery, READING, MASS.

ESTABLISHED 1854.

HARDY SHRUBS

Assorted in 25 Varieties.

My selection $50 per 1000. Descriptive catalogue and price lists for the trade.

SAMUEL C. MOON,

MORRISVILLE, - Bucks Co., PA.

....AUTUMN 1898....

One Million

Flowering Shrubs; full assortment; all sizes.

Half Million...

Deciduous Trees for street, lawn and avenue planting.

200,000 Vines, Ivies, Clematis, Actinedia and other sorts. Correspondence solicited.

THE WM. H. MOON CO.

MORRISVILLE, PA.

F. & F. NURSERIES SPRINGFIELD, NEW JERSEY.

Wholesale Growers, TREES & PLANTS in Full Assortment. TRADE CATALOGUE FREE

ELECTROS

For Catalogue Purposes.

WE have a large assortment of strictly high-class halftones of which we can supply electros suitable for catalogue illustration. If you need anything in this way, state your requirements and we will submit proofs of the illustrations in stock. Our collection includes the leading

ANNUALS
BIENNIALS
HARDY PERENNIALS
POT PLANTS
FLORISTS' FLOWERS
TREES AND SHRUBS
Also PARK AND GARDEN SCENERY.

PRICE FOR CASH ONLY 15 CENTS PER SQUARE INCH.

THE AMERICAN FLORIST CO.

.....324 Dearborn Street, CHICAGO, ILL.

Vaughan, McKellar & Winterson

NEW CARNATION EVANSTON

We are offering Rooted Cuttings of this Grand New Scarlet Carnation, the merits of which can not be doubted, as it is receiving the hearty endorsement from both the Growers and Wholesalers. We have handled the cut of Mr. J. Weiland for past two years, of this as well as other varieties, and have found it always a ready seller and one that was appreciated by buyers in preference to any other scarlet on the market.



CUT FLOWERS.

ROSES.

Am. Beauties, select	per doz.	$4.00 to $6.00
Am. Beauties, medium	"	2.00 to 3.00
Am. Beauties, short	"	1.00 to 2.00
Brides, Maids, Meteors	per 100.	3.00 to 7.00
Kaiserin, La France	"	3.00 to 7.00
Perle	"	3.00 to 5.00
Roses, our selection	"	3.00 to 4.00

CARNATIONS.

Fancy Stock	per 100.	$2.00 to $3.00
Ordinary Stock	"	1.00 to 1.50

MISCELLANEOUS STOCK.

Violets	per 100,	$.75 to $1.00
Valley	"	4.00 to 5.00
Narcissus	"	3.00 to 4.00
Romans	"	2.00 to 4.00
Callas	"	15.00 to 20.00
Harrisii	"	15.00 to 20.00
Bouvardia	"	1.00 to 2.00

Above prices subject to change without notice

Decorative Stock.

Wild Smilax, parlor brand		$3.75
" medium case		5.50
" large case		8.00
Asparagus plumosus	per doz.	$6.00 to 8.00
" " string		.50 to 1.00
Smilax	per doz.	1.50 to 2.00
Adiantum Ferns	per 100.	.75 to 1.00
Common "	per 100.	.15
" "	per 1000.	1.50
Galax Leaves	"	1.00
Farleyense Fronds	per doz.	1.00

We carry a good stock of above always on hand and can fill orders promptly.

Vaughan, McKellar & Winterson,
45-47-49 Wabash Avenue,
CHICAGO.

The following testimonial from one of our LEADING GROWERS should have a great deal of bearing with growers of Carnations:

MR. JOHN WEILAND, Evanston, Ill. Dear Sir:—In reference to the new Carnation "Evanston" which is being introduced this season, would state that I have grown a bench of this variety for the past year and have been better impressed with it than with any new carnation that has as yet been introduced, for scarlet, and intend the coming season to grow this variety for our leading scarlet, as in my estimation this variety will fill a long felt want in the market; namely, a good scarlet carnation, with good, thrifty habits and a strong producer. The "Evanston" is one that will surely fill these wants, and is one that will find ready sale wherever introduced. I consider it superior in all respects to any of the other twenty leading varieties which I now grow. I heartily endorse it to all carnation growers as a sure money-maker. Yours very truly, PETER REINBERG.

Give us your order now. Rooted Cuttings, $7.00 per 100, $60.00 per 1000. 500 at the thousand rate.

FERNS.

H. B. MAY invites inquiries for the above, of which he holds a very large and varied stock, including all the most useful market sorts and a large selection of choice novelties. Leading sorts can be quoted per 100 or 1000. Please name special sorts required. Quotations per return mail.

H. B. MAY,
Dyson's Lane Nurseries,
Upper Edmonton, LONDON, ENG.

AUCTION SALES!

THE BRITISH HORTICULTURAL ASSOCIATION, Ltd.
of 33a Ludgate Hill, London, E. C.
(The largest Auction room in the city of London),

hold sales **DAILY** of BULBS, ROOTS, ETC., from all parts of the World.

Extensive Connection of Regular Buyers.
Good Prices Always Obtained.
Settlements Every Friday.
Registered Offices 29 New Bridge Street, LONDON, E. C., ENGLAND.

The Auction sales held by this Association offer more advantages to Growers and Consignors than those of any other existing English firm.

THE
Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

The "GARDENERS' CHRONICLE" has been FOR OVER FIFTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, much of the information furnished is of such general and permanent value, that the 'GARDENERS' CHRONICLE" is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, $4.20 per year. Remittances to be made payable to H. G. COVE.

OFFICE:—
41 Wellington St., Covent Garden, London, England.

BEGONIAS AND GLOXINIAS

In any quantity.

SANDER, Bruges, Belgium.

AGENT: **A. DIMMOCK,**
60 Vesey Street. - - - NEW YORK.

HARDY CUT FERNS

WRITE FOR PRICES.



FANCY DAGGER

L. B. BRAGUE,
Oldest, largest and most reliable dealer in the U. S. **Hinsdale, Mass.**

GERANIUMS.

Fine rooted cuttings, mixed, from soil	$12 per 1000
2½-inch, mixed	20 per 1000
" " S. A. Nutt, La Favorite, Mme. Brusant, Heteranthe, etc.	25 per 1000
Mme. Salleroi, 2¼-inch	20 per 1000
COLEUS, fine, from soil	1 per 100

Cash please. **CARL HAGENBURGER, W. Mentor, O.**

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

Chicago Bowling Matters.

Next Thursday night the bi-weekly gold medal contests will be inaugurated and some very warm games are expected. Last Friday night the following scores were rolled:

Name.	1st.	2d.	3d.	4th.	5th.	Av.
E. F. Winterson	122	172	153	172	175	158
G. L. Grant	177	130				153
John Degnan	144	126	141	123	131	133
Charles Schweigert	137	137	105	111	138	125
Alex. Henderson	114	127	123			121
E. Benthey	86	116	106	138		111
C. S. Stewart	91	90				90
M. Barker	61					61

Convention City Bowlers.

Detroiters lost no time after the holiday rush in resuming their weekly practice on the alleys and, considering that this is the first season that any of the players have rolled with any degree of regularity, the following score is very creditable:

Name.	1st.	2d.	3d.	Av.
Dunn	182	165	137	161
Coryell	118	125	186	143
Holznagle	143	134	135	137
Watson	134	107	137	126
Rackham	125	117	132	125
Ferguson	114	107	132	118
Sullivan	110	92	146	116
Paulke	117	122	107	115
Pickworth	131	100	110	114
Beard	94	101	121	105

R. F.

The Champion Bowlers.

St. Louis has seen some really great bowling during the year just past. During the fifty-two weeks the club rolled 144 games and Messrs. Beneke and Kuehn participated in every one of them. The former made a total of 23,109 points and the best average, 160. Emil Schray made the best single score, 268, although Carl Beyer was a close second with 266. Ten members made scores in excess of 200.

At last Monday evening's contest Mr. Beyer started the 1899 record with three games of 200 or better and an average for the night of 195. The complete record follows:

Name.	1st.	2d	3d.	4th.	5th.	Av.
C. Beyer	150	226	204	200		195
C. A. Kuehn	164	133	127	147	171	148
J. J. Beneke	142	157	140	165	127	146
D. Finlayson	122	163	174	123	133	144
C. C. Sanders	137	140	158	136		143
Emil Schray	112	149	130	152	136	136
F. J. Fillmore	105	95	106	102	139	109

R. F. T.

Philadelphia.

GOOD TRADE AND FINE FLOWERS KEEP PRICES WELL ADVANCED. — GRAHAM'S BEST DECORATION. — CARNATION MATTERS. — THE CLUB MEETING. — NEXT MONTH'S SUBJECT. — A BANQUET IN SIGHT.

Trade has continued brisk since the holidays. The decorations by Graham for a large ball on December 30 were very fine. American Beauties and cattleyas were used lavishly. Most of these large entertainments are held in Horticultural Hall, and altogether this was the finest decoration yet executed by this firm.

The good demand keeps up the prices, which, since the quality of the stock has so improved, are paid without much cavil. Beauties are cleaned up every day; top price is $9 per dozen. The color of all the roses is much finer than two weeks ago, the Bridesmaids being very bright and a pleasure to handle; the stems, too, are stiffening, which was badly needed.

Carnations are down a bit, but $2.50 is still asked for anything worth having, while $4 to $6 is asked for the fancies. Flora Hill is getting a stronger stem, but the string on this, as in many other kinds, is still criss-crossed a good distance up the stems of the bunches. Geo. M. Chandler, of Avondale, is sending in some fine Annie Pixley. This seems worth a trial, although discarded by many growers. As Mr. Chandler grows it, it is an ideal pink.

The January meeting of the Florists' Club was well attended, as, indeed are most of the meetings. Mr. Blanc read a most entertaining paper on novelties. Messrs. Craig, Eisele and others took part in the discussion that followed. Mr. Eisele thought anemones were coming up and that Queen Charlotte would be a good variety to cultivate. He also thinks Duetzia Lemoinei a splendid pot plant for Easter. The essay for next meeting, "Latest Facts on Grafted Roses," by Alexander Scott, should be the best of the season, as results from such stock have proved so successful, and yet so few growers have adopted this plan. It was determined to have a banquet to entertain the visiting carnationists at their convention. Other matters looking to their comfort were discussed, and the meeting promises to be one of the best attended in the history of the society.

F. R. Pierson, of Tarrytown, and Edwin Seidewitz, of Baltimore, were among recent visitors. K.

Boston.

CUT FLOWER BUSINESS STEADY AND UNUSUALLY SATISFACTORY FOR THE SEASON. —MEETING OF THE GARDENERS' AND FLORISTS' CLUB.—INSTALLATION OF OFFICERS.—ENTERTAINING LECTURE.—VALUABLE PREMIUMS AWARDED.

It did not take long, with the fine weather that followed Christmas, to fill up the gap in the cut flower supply caused by the remarkable clean-up of that memorable occasion, but the old year went out in storm and the new one came in both stormy and cold and the overstock frequently experienced in the lull after the holidays has been nicely avoided. Prices have been maintained with commendable firmness and while somewhat lower than those prevailing at Christmas are, nevertheless, much better and more steady generally than was the case at the same period last year. The call is well distributed over the whole list of staple market varieties and comes evenly from all parts of New England as well as local sources and this feature is particularly encouraging as an indication of healthy conditions for the balance of the season.

The Gardeners' and Florists' Club held its initial meeting for 1899 on Tuesday evening. President-elect Elliott and Secretary-elect Wood were duly installed and a unanimous vote of thanks to the retiring officers, President Anderson and Secretary Dawson, was passed. A letter from Prof. Brooks, of Amherst Agricultural College, was presented, in which that gentleman denounced as fallacious the theories advanced by a recent lecturer before the club in reference to the comparative value of soda and potash as fertilizers. The club seemed disposed to arrange for a joint discussion at a future time.

The event of the evening was a lecture on the scenery, gardens and customs of the Japanese by John Farquhar. Mr. Farquhar has recently returned from that quaint country and during his travels there and in China secured about 1400 photographs. His lecture was illustrated by many of these views, the stereopticon being ably handled by Jas. Farquhar, and the large audience present enjoyed a great treat in seeing many of our favorite garden plants as they appear in their native habitat. The temples and elaborately constructed parks and gardens were especially attractive.

The garden committee of the Massachusetts Horticultural Society has made its annual award of premiums as follows: House of chrysanthemums, arranged for effect, first, J. G. Bailey; second, Mrs. B. P. Cheeney; house of chrysanthemums grown on benches, first, E. M. Wood & Co.; second, David Nevins' estate; house of foreign grapes, George McWilliam; house of violets, David Nevins' estate; carnation house, Wm. Nicholson; rose house, E. M. Wood & Co. The Hunnewell triennial premium for the best kept estate of not less than three acres was awarded to the David Nevins' estate. Gratuities were also given to E. S. Converse for well kept grounds and greenhouses, E. N. Pierce & Sons for chrysanthemum houses, J. S. Bailey for well kept grounds and greenhouses and George McWilliam for orchid house.

Exeter, N. H., had the honor of sending to Boston the finest American Beauty roses in the market for Christmas. They came to Welch Bros. from Hilliard & Karlson and no better blooms have ever been seen here.

Parkersburg, W. Va.

G. A. Hiehle's new rose and carnation houses which were erected last summer prove to be a success. The new range covers a quarter of an acre and is built in the most modern manner. The timber was furnished by the Lockland Lumber Company and is all clear cypress and cedar. The walls are hollow brick and iron supports are employed for purlins and benches. The ventilator is operated by Carmody's "meat saw" which works 150 feet like a charm. The heater is a locomotive boiler and the heating is done with a 2½-inch overhead flow and nine 1½-inch return pipes in each house, with valves to cut out any pipe in the system. The houses are on a southern exposure and are an ornament to the landscape, at least so their owner avers.

Parkersburg is booming more than any other town of its size on the Ohio river and the local florists are enjoying their full share of the good times. G. A.

Des Moines, Ia.

New Year's trade was about on a par with former years. The supply of stock was not equal to demands, although some fine blooms are being cut. Carnations are exceptionally fine. Roses are scarce and in good demand.

Many of the craft are now selecting the varieties of carnations for another year, and propagating has begun. All are preparing for large sales of spring bedding stock and Easter flowers, anticipating a prosperous season. J. T. D. F.

LAMBERTVILLE, N. J.—George Stephenson has removed to No. 1 North Union street.

ROOTED CUTTINGS,

Roses and Carnations!

WE OFFER WELL ROOTED CUTTINGS OF THE FOLLOWING ROSES AND CARNATIONS, ALL IN FINE CONDITION. PLACE ORDERS EARLY.

ROSES.

	Per 100	Per 1000
Meteor	$1.50	$12.50
Bridesmaid	1.50	12.50
Bride	1.50	12.50
La France	1.50	12.50
Perle	1.50	12.50
Kaiserin	2.00	17.50

CARNATIONS.

	Per 100	Per 1000
Wm. Scott	$1.00	$7.50
Nancy Hanks	1.00	7.50
McCowan	1.00	7.50
Tidal Wave	1.00	7.50
Kohinoor	1.00	7.50
Portia	1.00	7.50

CARNATIONS.

	Per 100	Per 1000
Flora Hill	$1.50	$12.50
Jubilee	1.50	12.50
Mayor Pingree	1.50	12.50
Triumph	1.50	12.50
Nivea	1.50	12.50
Daybreak	1.50	12.50

	Per 100	Per 1000
Armazindy	$1.50	$12.50
McBurney	1.50	12.50
Alaska	1.50	12.50
Argyle	4.00	35.00
Painted Lady	4.00	35.00
White Cloud	4.00	35.00
Evelina	4.00	35.00

REINBERG BROS., 51 Wabash Ave., Chicago.

LET US POST YOU!

Our Trade List January, 1899

CARNATION CUTTINGS Now Ready.

Rebacco, seedling by Dorner, fancy bloom, large as Mayor Pingree, stem as strong, bloom is yellowest brown, flaked light pink, bright	Per 100 $5.00
Argyle, fine dark pink	6.00
Tidal Wave, discarded for Argyle.	
Bridesmaid, " " "	
Empress, large dark red	4.00
Meteor, discarded for Empress.	
Evelina, best paying white	3.00
Lizzie McGowan, discarded for Evelina.	
Ivory, " " "	
Alaska, " " "	
Mayor Pingree, big cream	1.50
Gold Nugget, best yellow	6.00
Painted Lady, painted	3.00
Psyche, variegated	3.00
Mary Wood, she's all right	2.00
Mrs. Bradt, a dandy	3.00
Sport from Mrs. Bradt, the coming scarlet single rooted cutting, each, 25c.	
Helen Keller, discarded for Bradt.	
Armazindy, " " "	
Lily Dean, " " "	
Flora Hill, the big white	1.50
Daybreak, shell pink	1.50
Triumph, the big pink	2.00
Wm. Scott, discarded for Triumph.	
Jubilee, scarlet	1.50
Morello, "	1.50
Portia, discarded.	

Above carnations are all strong, healthy rooted cuttings. Estimate given on 1,000 to 50,000 lots.

POT PLANTS,

2¼-in., Rooted in September, 1898.

	Per 100
New Coleus Brownii, a fine bedder	$5.00
Velvet Plant, a big seller	3.00
Geranium, Dekoo Milling, seedling, a cross between Cloth of Gold and S. A. Nutt; it has the yellow leaf of Cloth of Gold and the double bloom of S. A. Nutt; each . . . $5.00.	
Geranium Mme. Salleroi	2.00
" Ivy mixed	2.00
" Up to date, our selection	2.00
" Fancy leaved "	3.00
" Double white, every variety you want	2.00
Feverfew Little Gem	2.00
Southern Thyme	2.00
Iresine, in two colors, red and yellow, makes the best Canna border	2.00
Salvias Clara Bedman, Le President and Vernon	2.00
Abutilons Souv. de Bonn and Triomphe de Levii	2.00
Smilax	1.00
Petunias, seven of Dreer's best	2.00
Heliotropes White Lady, Czar and Albert Dix	2.00
Coleus, up to date varieties	2.00
Begonias " "	2.00
Mesembryanthemum Erectum	5.00
'Mums, Florence Pullman, Modesto, Mme. Desgrange, Vernel's Beauty and Mrs. R. McArthur	2.00

Five plants at 100 rates. Spot cash.

THE MORRIS FLORAL CO., MORRIS, ILL.

HERR'S CARNATIONS.

YOU RUN NO RISK.

ALL Carnation Cuttings are sent out with the privilege of returning them at my expense if they are not found satisfactory on receipt, and your money returned you in full. I have from one to five thousand stock plants of each of the leading varieties, and offer cuttings at very reasonable prices.

Nine Good Novelties!

Twenty-Five Standard Sorts!

Send your list before you place your orders.....

ALBERT M. HERR, Lancaster, Pa.

CARNATIONS.

Rooted cuttings of the following varieties are now ready.

	Per 100	Per 1000
Gold Nugget, yellow	$6.00	$50.00
Mrs. Geo. M. Bradt, variegated	5.00	40.00
Mrs. Jas. Dean, light pink	6.00	50.00
Argyle, dark pink	5.00	40.00
Mrs. Frances Joost, pink	5.00	40.00
Flora Hill, white	3.00	20.00
Evelina, white	4.00	30.00
New York, dark pink	5.00	40.00
Bon Ton, scarlet	6.00	50.00
Jno. Young, white	5.00	40.00
Jubilee, scarlet	3.00	25.00
Victor, pink	3.00	20.00
Armazindy, variegated	3.00	20.00
Daybreak, light pink	2.50	20.00

Highest quality of cuttings well rooted.

CHICAGO CARNATION CO.,

Catalogue ready Feb. 1st. Greenhouses and address **JOLIET, ILL.**

SPECIALTIES IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N.Y.

CARNATIONS

F. DORNER & SONS CO.,
La Fayette, Ind.

CARNATIONS

H. WEBER & SONS,
Oakland, - Md.

We've thousands of readers and hundreds of advertisers. Each helps the other.

CARNATION SEED.

Hand fertilized by crossing finest named winter blooming varieties.....

100 Seeds for 25 cts.

Former price $1.00. Casb with order.

AMERICAN ROSE CO.,
WASHINGTON, D. C.

You will soon want some

CARNATION CUTTINGS, standards as well as the best of the new varieties. Well, let me give you a pointer. It is to my OWN INTEREST to serve you well, hence whatever stock you may get through me you will be sure of getting the very BEST. I represent the foremost Carnation Specialists in the country. Suppose I mail you a list of the varieties I offer and quote prices?

Address **S. S. SKIDELSKY,**
1653 N. 7th St., PHILADELPHIA.

It is time you were thinking about

CARNATION STOCK

for next season. It pays to buy only the best. Will have them in large quantities, of all the leading commercial varieties. Ready Jan. 1st and later. Write me for prices.

Address **CHAS. CHADWICK,**
Lock Box 11, Grand Rapids, Mich.

Our Specialty!

ROOTED CUTTINGS of NEW VARIETIES of CARNATIONS

Special prices to those who issue lists or who buy to sell again. Let us know what you are likely to need and get prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

Helpful Reminders.

The first batch of deutzias, either gracilis or Lemoinei, may be placed in the warmth now; for most floral work this is far preferable to the lily of the valley. Narcissus Princeps and Von Sion can be brought in now with safety. Romans should not be held any later as it is best to have done with them before Dutch hyacinths appear.

Grevillea robusta that has been growing for one or two seasons in pots had best be shaken out and put back into the same pots with that good soil which was prepared in September.

If you think your trade will appreciate sweet peas enough to make an early crop profitable, put in the seed now. See to it that your stock plants of chrysanthemums and stevia are in good condition and of the most desirable varieties for your trade. Take heed of the reports that poinsettias were in great demand at Christmas.

Turning from growing, I wish to remind you of a few facts concerning the delivery of flowers. To waste is a sin, therefore economy is a virture, but there is a penny wise and pound foolish policy practiced by many. I refer to slovenly ways of doing up flowers for delivery. If your wholesale dealer should send you American Beauties in a market basket, violets in a herring box or smilax in a fish net you would soon send your orders elsewhere, but for the desire to save three cents for a clean box the suitable length, and breadth for a $2 parcel of flowers, many florists will squeeze them into a shoe box, break two or three stems, bruise a few flowers and injure their standing, sometimes irreparably. Keep at least four sizes of cut flower boxes, have your name neatly printed on them and line with tissue paper to be sure that every flower is well packed and will be delivered safely to the customer; it's the the beauty they pay for, not merely the substance. C. B. W.

Portland, Ore.

Except for a couple of weeks just before Christmas, when the temperature fell to the freezing point, we have had a very fine winter here. Portland lies in a sheltered valley where the cold does not strike, although we can see snow all the year round. Roses that are called tender in the east are grown outside here and some of the rose bushes had buds in December. Two weeks before Christmas florists were using Bride roses cut outdoors for their funeral work.

All stock is looking well and prospects are good for spring. But, speaking of busy people, S. J. Lemmon beats them all. He has 6000 feet of glass and does all the work himself, including that in his retail store. For three weeks before Christmas he did not see a bed, doing his sleeping in the intervals between firing his boiler.

The Pacific Floral Company is a new concern at the corner of Forty-first and Powell street.

The Japanese Greenhouses, Glencoe Station, are also new. S.

STERLING, ILL.—Ross Langdon, of Morrison, is now employed in the greenhouses of his brother-in-law, F. A. Belt.

JACKSON, MICH.—W. J. Heath has purchased the stock of the late Oakes Greenhouse Company and opened a retail establishment at Forbes and Tyson streets.

12 Reasons Why Every Florist Should Grow

BABY PRIMROSE!

(PRIMULA FORBESI.)



1st. Plants begin to bloom when only one inch high.
2d. Plants in 2-in pots 3 months ago now in 6-in., carry more than 50 sprays of flowers and will continue to bloom in greater profusion. It's a perpetual bloomer.
3d. Prominent Philadelphia and New York florists pay $2 per 100 for the sprays
4th. Baby Primrose requires no forcing and will even bloom in violet frames It is not poisonous.
5th. The flowers remain fresh for nearly a month after being cut.
6th. The stems are long and erect, useful for all purposes.
7th. The rosy lilac flowers are just the right color.
8th. For Easter blooming nothing could be more profitable or newer.
9th. The more you cut it the more it blooms You can't stop it.
10th It is elegant as a pot plant or for jardinieres.
11th. IT IS MORE PROFITABLE to grow than roses or carnations, as it begins to bloom as soon as bedded and can be cut as wanted.
12th WE RETURN YOUR MONEY if you are not satisfied.

12 Plants by mail, $1.25; 100 by express, $7.00.
12 sprays of Flowers by mail, 30 cts.

A New Sweet-Scented $1000 Calla.

It has a genuine lasting fragrance, all its own, but similar to that of violets or lilies. Price, $6 00 to $12 00 per 100; $1.00 to $2.00 per dozen, mailed

A Break in Prices on **Asparagus Sprengeri** $4 per 100 24 for $1.50

A. BLANC & CO., - Philadelphia.

RAMBLER ROSES.

Now is the time to order

CRIMSON, PINK, WHITE and YELLOW RAMBLERS to pot up for Easter sales.

2-year dormant plants, dozen, $2 00; per 100, $15 00
3 " " " " 3.00; " 20.00

CHICAGO. VAUGHAN'S SEED STORE, NEW YORK.

GREENHOUSES, Western Springs, Ill.

Save Money

By doing your own GRAFTING.

MANETTI STOCKS, FINEST QUALITY. Specially prepared for grafting Roses for forcing under glass. PRICE, $12.50 per 1000.

ROB'T CRAIG & SON, 49th and Market Sts., PHILADELPHIA, PA.

Special Winter Offer,

INCLUDING PREPAYMENT by parcel post or express, according to weight of order.

ORCHID BLOOMS—L anceps and L. autumnalis, until Dec. 15th, $2.00 per dozen; $12.00 per 100.

BULBS—Milla hilfora, Bessera elegans, Cyclobothra flava, Tigridias Pavonia, Conchiflora and Rosea, per 100 $1.50; per 1000 $12. Amaryl is Formosissima and Pancratium "Spider Lily", $2.00 per 100.

CACTI—A collection of 25 different varieties $3 00, 100 Cacti in 6 good varieties, $6.00. Old Man Cactus per dozen $3 00.

ORCHIDS. Lælias majalis, alibida, anceps and autumnalis, $3 50 per dozen; $25.00 per 100 Odontoglossums Cervantesi, Maculatum, Nebulosum, Rossi, $3.00 per dozen; $20.00 per 100 Cattleya Citrina, $3 00 per dozen; $20.00 per 100. A sample collection of 20 different varieties, prepaid, $5.00.

Cash with order from unknown correspondents.

J. A. McDOWELL,
APARTADO 167, CITY OF MEXICO.

Crimson Rambler

DORMANT FIELD GROWN PLANTS

We have a few thousand extra heavy plants of **Crimson** and **Yellow Rambler**, cut back ready for potting in 10-inch pots for Easter blooming. This is A1 stock, the finest we have ever had.

$20 per 100, Lighter Grade, $15 per 100.

THE DINGEE & CONARD CO., West Grove, Pa.

FIRST TWO INCH POTS OF

Woottons, Perles, Brides, La France and Meteors

Ready for shipment Feb. 1st. Orders filled in rotation. Rooted Cuttings of all roses ready Jan. 5th to 10th. Fancy Carnation Cuttings ready Jan. 25th. Write, GEO. A. KUHL
Pekin, Ill.

Long Dis. Phone, 14. Wholesale Cut Flowers.

PALM Seed.

FRESH ON HAND

	100	1000	3000
Kentia Belmoreana.....	$1.00	$6.50	$15.00

J. L. SCHILLER,
404 East 34th Street, NEW YORK CITY

PALMS. FERNS. FICUS.

Medal awarded on Palms at World's Fair, 1893.

(Established 1884.)

100,000 strong LATANIA SEEDLINGS and 25,000 FERNS for dishes at $3.00 per 100, $25.00 per 1000.

TERMS, CASH.

ALBERT FUCHS,
2059-73 N. Halsted St., CHICAGO, ILL.

Rose Hill Nurseries,

OUR SPECIALTY: Headquarters

Areca Lutescens, Kentia Belmoreana, Cocos Weddeliana, Kentia Forsteriana, Livistona rotundifolia, Phœnix rupicola, Phœnix reclinata, Araucaria excelsa, Pandanus, Ferns. The largest stock of Kentias in America.

SIEBRECHT & SON, New Rochelle, N. Y.

Begonia Gloire de Lorraine.

The finest winter-blooming plant in cultivation. In bloom half the year. We offer stock plants as follows.....

Plants from 2½-in. pots, 25c. each; $2.50 per doz., $20 per 100.

Plants from 4-in. pots, 50c. each; $5 per doz., $40 per 100.

By mail, 10c each extra.

Our Florists' Wolesale List of new and choice **FLOWER SEEDS** mailed free.

R. & J. FARQUHAR & CO.,
16 & 19 South Market St.,
BOSTON.



Are you going to carry a list of **DAHLIAS** in your '99 catalogue? If so it will pay you to correspond with me. I prepare lists and arrange the Dahlia pages for florists and seedsmen free. Write for prices, etc.
W. W. WILMORE, DAHLIA SPECIALIST, Box 382, Denver, Colo.

GERANIUNS, graud bedders—Harrison, Richard, Poitevine, Acteon, Bonnot, Nutt, Buchner and a host of other double and single. Rooted cuttings. $1.40 per 100; $10.00 per 1000. Replanted, extra strong, $13.50 per 1000

COLEUS, Red Verschaffeltii and Golden Bedder, by mail, 75c per 100; 25 Select Fancy, 65c per 100. Full list of stock ready. Cash please; we add plants for discount.
DANIEL K. HERR, Lancaster, Pa.

SPECIAL OFFER—CHEAP!

Anybody who intends to grow **HEATH** here is your chance! Speak quick if y u want any. I have a surplus of fine bushy plants from 3½-in. pots of the Xmas variety,
ERICA FRAGRANS, $15.00 per 100.
Cash must accompany all orders.
A. SCHULTHEIS, Box 78, College Point, L. I. N. Y.

Choice transplanted
Cyclamen Seedlings,
DREER'S STRAIN.
2-5 leaves.....$3.00 per 100.
GERANIUM "MARS", 2½-inch pots, 75c. per dozen, $5.00 per hundred.
HENRY EICHHOLZ, Franklin Co. **Waynesboro, Pa.**

BEGONIAS.

	Per 100	Per 100
Argentea guttata	2-inch,	$2.00; 3½-inch, $4.00
Feastii, Speculata	2-inch,	2 00;
Rubra	2-inch,	3.00;
Bertha Chatteaurocher, Robusta	3½-inch,	4.00
De Lesseps, Pres. Carnot	3½-inch,	4.00
Roses—La France $3.00 per 100; Meteor		2.50
White, Pink and Yellow Rambler 3½-inch		4.00

Full standard list. 2½ in., 3½ in. and 4 in.
THE NATIONAL PLANT CO., Dayton, O.

PANSIES WORTH RAISING.

Good Small Plants from cold frames or greenhouse only, at $4.00 per 1000. All others not accessible at present.
CASH WITH ORDER. **Seed as usual.**
C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.60 per 100; $20 per 1000. Rooted Cuttings, 75c per 100; $6.00 per 1000; $60 per 10000
NO RUST OR MILDEW.
PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.
We are the Largest Growers of Verbenas in the country.
Our plants cannot be surpassed.
J. L. DILLON, Bloomsburg, Pa.

Geraniums

Well-rooted cuttings, best varieties, mixed, $1.00 per 100; $9.00 per 1000.
Cash with Order.
PETER BROWN, - Lancaster, Pa.

Edw. Parre's Largest Petaled and Cheapest BEGONIAS

The finest in trade, 1 inch and more.
Double, $3 per 100, $22 per 1,000, $200 per 10,000.
Single, $1.50 per 100, $11 per 1,000, $90 per 10,000
Gloxinia; 1st class choice, $1.25 per 100 $12.00 per 1,000. Cash with order or good references.
GHENT, BELGIUM.

HYDRANGEA OTAKSA

XX strong plants, per doz., $3.50; per 100, $27.50
" " for 8-inch pots.....
.....per doz., $3.00; per 100, $20.00
Medium size, " 2.00; " 12.00
ERICA FRAGRANS, 5 & 6-in. pots, per doz., 4.50
Extra fine plants.
DUTCH BULBS & INDIAN AZALEAS now at hand.
L. C. BOBBINK, Rutherford, N. J.

WE HAVE
500 PAMPAS PLUMES
...Make us an offer...
A. L. HETTRICH & CO.,
Sea Shells and Shell Goods,
630 Washington St., San Francisco, Cal.

Chrysanthemums.

We are Headquarters for all '99 Novelties. Also complete list of best commercial varieties.
Correspondence Solicited.
NATHAN SMITH & SON, Adrian, Mich.

CANNAS.

We have a large etock of such varieties as **Duke of Marlborough, Alsace, Gloriosa, Maiden's Blush, Rosemawr, Queen Charlotte, Italia, Austria.** Write for prices.
The Conard & Jones Co.,
(ROSE GROWERS.) WEST GROVE, PA.

SPECIAL OFFER!

Cyclamen Persicum Splendens (giganteum), transplanted twice from flats, in four true colors, $3 pe 100, $25 per 1000, express prepaid. **Cineraria Hybrida Nana and Grandidora,** from flats, $1 50 per 100. **Chinese Primroses,** seedlings from flats, $1 50 per 100; from 3-in. pots, in bud and bloom, $4 per 100; from 4-in. pots, $5 per 100. **Cyclamens** from 3-in. pots, $8 per 100; from 4-in. pots in bud and bloom, $12 00 per 100.
SATISFACTION GUARANTEED.
MADER & STEMPLE CO. Ltd., E. Stroudsburg, Pa.

Verbena, Lantana, Heliotrope, Ceranium and Chrysanthemum plants in varieties. Also **Lemon Verbene, Helianthus Multiflorus,** Etc., strong plants from 2½ in., $2 per 100.
Nymphaea Odorata Cigantea, large roots, $3 50 per 100.
Caladium Esculentum, first size, $2 per 100.
Canna Roots, good varieties, $2 per 100.
500 Dwarf Orange Plants (Citrus Sinensis), large bushy heads, from 4 to 5-in. pots, $20 per 100.
Lettuce and other vegetable plants in any quantity
R. VINCENT, JR. & SON, White Marsh, Md.

Say: "Saw it in the FLORIST."

NEW MAMMOTH VERBENAS.

25 graud varieties guaranteed satisfactory in every respect. Stroug rooted cuttings, 60c per 100. $4 per 1000. Fine pot plants, full of cuttings, $2 per 100. Cash with order. EXPRESS PREPAID to all parts U. S. aod Cauada. Send for descriptive circular.

AN ORDER JUST RECEIVED.

SOUTH SIDE FLORAL CO., Springfield, Ill.:
Dear Sirs—The Verbenas arrived in good order. Thanks for sending me as good stuff as nobody has any room to kick on that kind of stuff at twice the price. Please find P. O. order for $1. for which send me 100 Double Fringed Petunias. Resp'y yours.
Brazil, Ind., Dec. 18, '98. A. DINKLE.
SOUTH SIDE FLORAL CO., Springfield, Ill.

CHOICE SEEDS!

VERBENA GRANDIFLORA.
The finest strain of Giant Verbenas yet produced, largest flowers and best colors. Be sure to sow. Per pkt 500 seeds, mixed colors, 50 cts.
CYCLAMEN GIGANTEUM.
The choicest giant flowering varieties in best mixture. Pkt., 200 seeds, $1.00; half pkt., 50 cts.
PETUNIA DOUBLE FRINGED.
The largest and finest to be had. Trade pkt., 50 cts.
CHINESE PRIMROSE.
Best single and double, 400 seeds, $1 00.
Seeds of Choice Novelties added to every order.
JNO F. RUPP, Shiremanstown, Pa.

For Sale...

1000 Poinsettias, one and two year old dormant roots, or will exchange for hardy roses. Address.
CHARLES FRUEH,
1116 Hoyt Street, SAGINAW, MICH.

ROOTED CUTTINGS, stroug plants.

	Per 100
White and Blue Ageratum	$ 60
Salvia Splendens	1.00
Petunias, the best mixed	1.00
Coleus, the best bedders	.60
Petunias, Sea Foam Amethyst, Garnet and others, FINE, 2½-in.	2.00
Geraniums, our selection, 2½-in.	1.00
Coleus, fine bedders, "	1.00

Delivery free. If not satisfied your money back without discussion.
F. R. THORNTON, 607 E. Jefferson St., Macomb, Ill.

PELARCONIUMS. 15 of the leading varieties, all good kinds. Rooted cuttings, $2 100. 2½-in. pots, $4 100.
VERBENAS. 30 of the leading kinds. Rooted cuttings, 60c per 100, $5 per 1000, 5000 for $23, 10,000 for $40.
PETUNIAS. 15 of the best and latest varieties, not all one color, under different names; Rooted cuttings, $1.25 per 100, $8 per 1000.
HELIOTROPE. 8 varieties. Rooted cuttings, $1 per 100, $7.00 per 1000.
COLEUS. 20 good varieties. Rooted cuttings, 60c per 100, $5 50 per 1000.
Express prepaid on all varieties except pelargoniums. Satisfaction guaranteed or money refunded. CASH PLEASE. Write for list to
S. D. BRANT, Clay Center, Kas.

Adiantum Farleyense.

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In 5-inch pots, at $9.00 per dozen.
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St. Paul.

A PROSPEROUS WINTER.—FINE FLOWERS.—MANY OF THEM SHIPPED FROM CHICAGO.—A COLD NEW YEAR.—PROSPECTS.—AN ORCHID QUEST.—SEEGER'S FINE ROSES.—FLORISTS TO MEET.

Altogether Christmas 1898 holds the record for good sales, good weather, good stock and good prices. There were very few Harrisii blooms seen and but very little demand for them. Romans and Paper Whites were plentiful, with lily of the valley scarce. Large quantities of stock were shipped in from Chicago and Milwaukee of better quality than ever before seen here.

The old year was ushered out with the lowest temperature of the season, the mercury ranging from 19° to 30° below zero. With this condition New Year's trade was lighter than usual.

Trade for the next six weeks promises to be very lively. Numerous weddings, frequent receptions and other social functions of greater or less degree will keep the craft busy and help pay coal bills, which so far this winter have been unusually heavy.

Dr. R. Schiffmann, our orchid specialist, intends to start this month on his annual pilgrimage to South America in search of new and rare specimens, touching at Guatemala and some other Central American states. Anyone in the trade desiring agreeable company and an interesting trip would do well to join him.

R. C. Seeger has closed his store at the City Market for two months or more. He is bringing in some very choice Brides, Bridesmaids, Woottons and Meteors. Violets are now coming in very freely and prices are dropping weekly. This is the only flower grown here in sufficient quantities to meet the trade demands. Large quantities of carnations and roses are shipped in daily.

The next meeting of the Minnesota Florists' Society will be held at the West Hotel, Minneapolis, on Saturday evening, January 14. FELIX.

Newport, R. I.

The best attended meeting in the history of the Newport Horticultural Society was that on December 28 at which the following officers were elected:

President, James McLeish; first vice-president, B. F. Tanner; second vice-president, John J. Allan; recording secretary, W. T. Burton; financial secretary, Bruce Butterton; treasurer, Richard Gardner; sergeant-at-arms, Wm. Smith; executive committee, Alexander MacLellan, W. T. Burton, J. J Butler, James McLeish, Robert Laurie, James Kile, Richard Gardner, Alexander Ogg and A. S. Meikle; auditing committee, B. F. Tanner, Joseph Gibson and Samuel Chambers; entertainment committee, J. T. Allan, Robert Laurie, J. J. Butler, James Kile and Charles D. Stark.

The various reports showed the society to be in excellent financial condition and strong in members and interest.

John K. M. L. Farquhar, of Boston, will lecture before the society in Sanborn's Hall on the evening of January 11.

Robert Christie has been very ill for the past two weeks with inflammatory rheumatism and his condition is at present regarded as serious.

BUSHNELL, ILL.—E. D. Lauterbach established a well decorated Christmas down-town branch in Kent's grocery and did a thriving trade.



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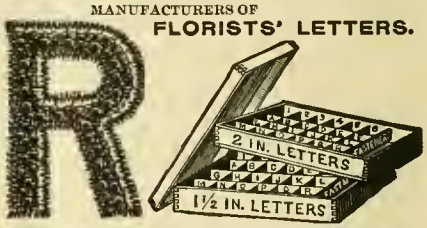
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Chatham, Ont.

The year just ended was an excellent one for local florists and the prospects for spring are bright. Trade was good at Christmas and stock is in fine condition.

Robert Killen reports as good a holiday season as has ever been known here and his carnations and roses are his pride. They are certainly well grown.

Miss Fannie Tissiman, whose glass is the most extensive here—she has eight houses—found an excellent holiday sale for plants and had provided a generous supply. She reports carnations and roses the most popular Christmas flowers.

LENOX, MASS.—The annual banquet of the Lenox Horticultural Society will be held January 11 at Flint's hotel and the annual ball January 27 at Sedgwick hall.

REDUCED RATES TO HOT SPRINGS, ARK.

The Wabash Line has on sale ninety-day round trip excursion tickets to the famous Hot Springs of Arkansas at very low rates. Through Sleeping Cars to Hot Springs with but one change of cars (in St. Louis Union Station).

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Crane Is a Great Rhymester.

Charles S. Crane, the General Passenger Agent of the Wabash, is quite a poet, and has written many nice things. Recently he read the poem on the "Music of the Wheels," written by E. E. Coyle, for the Baltimore *Morning Herald*, which runs as follows:

MUSIC OF THE WHEELS.

When you're riding on the railroad
At a mile-a-minute crack,
Do you ever note the rhythm
Of the wheels along the track?
Is there any great composer
Of sharps and flats and bars
Can equal in his cadences
The music of the cars?

Whether dashing through the meadow,
Or the tunnel's choking grime,
You will never hear them falter
From the measured beat of time;
Charging wildly 'mongst the mountains,
Or by the river's bank,
You will always find them playing—
Click-clickety-click-clank.

Every air that has been written
Since the days of wicked Cain
Finds a fit and perfect setting
In the rhythm of the train;
From opera to comic song,
From Patti down to Cline,
You can hum all sorts of ditties
While rushing down the line.

After reading the above Mr. Crane got his typewriter in order, and by screwing up the poetical lever ground off the following:

It's too bad to spoil the story
Told in cadence sentimental
But it's not so on the Wabash
With its famous 'Continental."

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Please note the following points,
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And you cannot count the joints.

In its wheels there is no music,
At a mile-a minute gait,
And of course there is no rhythm
On a track that's up-to-date.

There is no measured beat of time;
In fact it can't be measured.
We beat our rivals every time,
A fact that should be treasured.

When you go to the convention
At Detroit in ninety-nine;
If in comfort you would travel,
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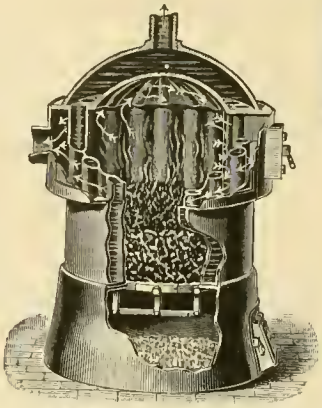
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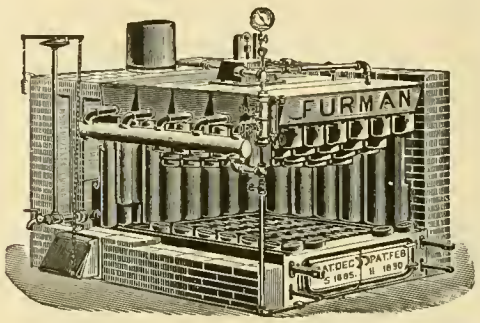
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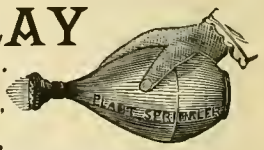
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Vol. XIV. CHICAGO AND NEW YORK, JANUARY 14, 1899. No. 554.

THE AMERICAN FLORIST

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OFFICERS—W. N RUDD, Mount Greenwood, Ill., president; P. BREITMEYER, Detroit, Mich., vice-president; W. J STEWART, 67 Bromfield St., Boston, Mass., secretary; H B. BEATTY, Oil City, Pa., treasurer. The fifteenth annual meeting will be held at Detroit, Mich., August, 1899.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899. ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich., August, 1899 ELMER D. SMITH, Adrian, Mich., secretary.

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WILLIAMS BAY, WIS.—Frank T. Manahan is putting in a new heating apparatus.

Further Notes on Watering.

The following additional facts with regard to the effect of cold water on plants may not be without interest. The experiment with coleus noted in the AMERICAN FLORIST of November 12, page 434, was repeated during the past year and with similar results. Four lots of cuttings were rooted in separate compartments and watered, as in the first trial, with water at 32°, 40°, 70° and 100° respectively. The cuttings all rooted well and were potted and shifted as needed, the final shift being into 6-inch pots.

Four months after taking the cuttings two average plants were washed free from earth and weighed with the following results: (The metric system of weight was used in this and the following experiments. The weights as here given may be transposed, approximately, to ounces avoirdupois by dividing by 28).

32°—238.5 Grammes. 70°—251.0 Grammes.
40°—216.0 " 100°—268.0 "

One month later the remaining plants were weighed with results as follows:

32°—373 Grammes. 70°—377 Grammes.
40°—325 " 100°—371 "

It is difficult to discover in these results any influence due to the temperature of the water used.

For the remaining experiments vegetables were used; these were grown on an ordinary raised bench, which was divided by board cross-partitions into beds each 2x4 feet and 4½ inches deep; tomatoes, beans and radishes were grown two or more crops of each. Some results are here given.

BEANS.

Eight beds were planted with Ne Plus Ultra beans—fourteen plants to each bed. The beds were watered with water at 32°, 40°, 70° and 100° respectively. An equal quantity of water was given to the different beds at each watering. The pods were picked when about four inches long. Below is given the total length of pods, total weight of pods and the weight of the plants; also the weight of the pods in the first three pickings:

Lots, 28 plants in each.	Length of pods.	Weight of pods.	Weight of plants.	Weight of pods first 3 pickings.
	Inches.	Gram's.	Gram's.	Grammes.
32°.....	1,062.25	793.7	650.0	318.5
40°.....	1,117.54	711.7	606.5	347.1
70°.....	971.50	596.2	539.5	298.6
100°....	859.60	556.4	564.9	270.0

The above table shows that the two lots which received the coldest water produced the greatest weight of pods, also the greatest length of pods and the heaviest plants. In the right hand column is given the weight of pods from the different lots in the first three pickings, showing an advantage in earliness for the 40° lot and the 32° lot.

TOMATOES.

Twenty plants were grown in four beds; the plants were set from 6-inch pots in eight inches of soil, trained to single stems and watered as in previous experiments. The total weight of fruit and plants follow:

No. of lot.	Weight of fruit.	Weight of plants.
32°	1,379 Gr.	196 Gr.
40°	1,130 "	198 "
70°	1,188.5 "	182 "
100°	1,408 "	161 "

In this case the 32° lot yielded more than the 70° lot, but less than the 100° lot.

An interesting trial was one conducted with tomato plants in pots. One hundred plants were grown from seed saved from the second generation of cold and warm water plants. These were potted, divided into four lots and watered as in above experiments. Two months from the date of sowing the seed fifteen plants of each lot, now in 6-inch pots, were weighed as follows:

32°—55.9 Grammes (Average Weight.)
40°—58.7 " " "
70°—65.3 " " "
100°—58.0 " " "

There is here a slight difference in favor of the 70° lot, but the 40° lot weighed a trifle more than the 100° lot. It would be unwise to ascribe this slight variation to the temperature of the water used.

In this experiment a record was made of the soil temperatures before and after watering. From these observations it was noted that the influence of the temperature of the water used was not apparent after three hours. In the following table is given a record of the variations in temperature of the soil in the pots at one watering; the readings are Centigrade:

No. of lot.	Before watering.	After 1 hour.	After 2 hours.	After 3 hours.
32°....	20.2° C.	17.8° C.	19.6° C.	24.2° C.
40°....	20.8	19 2	20.6	24.2
70°....	20.0	20.8	21.4	24.2
100°...	20.4	24.0	23.6	24.2

TOMATOES IN SOLID BEDS.

An extensive experiment was conducted with tomatoes in a house 22x75 feet without benches of any kind. The soil consists of fourteen inches of well manured loam underlaid with several feet of gravelly clay. The plants were set two feet apart in rows four feet apart. All were treated alike, so far as possible, except in the temperature of the water applied. In this case 32°, 60° and 90° were the temperatures selected. The

plants were watered about once a week; from two to three gallons of water applied to a plant. The following gives a summary of results:

No. of lot.	Total No. fruits.	Total wt. of fruits.	Average weight of fruits.	Weight of plants.	Height of plants.
		Gram.	Gram.	Lbs.	In feet.
32°.....	303	21,511.0	70.00	45.26	5.55
60°.....	300	21,014.0	70.00	41.12	5.42
90°.....	281	19,187.0	68.30	39.27	5.31

Here the plants that were thoroughly drenched with ice water actually yielded more than the ones watered with warm water!

Many other trials were conducted and all with similar results. Much work was also done in the field. An outline of one such experiment with its results may be of interest.

On a plat 8x50 feet were planted several rows of summer radishes and snap beans. The plat was then divided crosswise into three equal parts; one watered with ice water, one with warmer water (about 70°) and one not watered at all. Several hundred gallons of water were applied to each of the two irrigated plats.

In this case the plants watered with ice water exceeded in weight the ones watered with warm water about eight per cent, while those not irrigated at all weighed eighteen and six-tenths per cent less than those watered with ice water. It follows then, other conditions being equal, that twelve thorough waterings with ice water produced ten and six-tenths per cent greater yield than where no water was used. The rainfall during the past season was regarded as nearly or quite sufficient for the development of crops well cared for.

SUMMARY.

From the results of these and numerous other trials, not here noted, the conclusion appears fully warrantable that the growth of ordinary greenhouse and garden crops is not affected by the temperature of any water ordinarily available for irrigation purposes. The temperature of the soil about the roots of the plants so quickly regains its original temperature that no check to growth is likely to result. FREDERIC CRANEFIELD.

Fuchsia Photograph Competition.

On pages 588 and 600, No. 501, Vol. XIII., of the AMERICAN FLORIST a premium of $5 was offered for the best photograph of a fuchsia grown in accordance with the terms therein stated. It was decreed that photographs should not be admitted to the contest unless the subject cuttings were put in later than January 1, 1898, and grown in accordance with the cultural method outlined by "L. O. N." which was as follows:

"To proceed, select strong, newly made shoots that have been produced upon the old stock plants in a house that has been supplied with air and light in abundance and in a night temperature of from 50° to 55°. Pot the cuttings at once into 2½-inch pots, using soil that is light, moderately rich, and porous; place them in a temperature of 60° keeping them well sprinkled and shaded from the direct rays of the sun until well rooted. It should here be stated that great care must be exercised so as to never allow the cuttings to wilt at any time, either from lack of moisture or too much heat. After they are well rooted they may gradually be inured to more light and air, and given a position close to the glass and in a night temperature of not higher than 55°. As soon as the young plants are thoroughly well rooted they should be given a shift into well drained pots 5 or 6 inches in diameter, according to the strength of the young plant and the variety, using as a compost something similar to that recommended for the cuttings, with perhaps the addition of a little more loam. Great care in watering must be exercised at this stage of the young plant's existence or failure will more than likely be the result. They should have enough water, but not too much. One good watering to settle the soil will suffice after the repotting for a day or two, when the caution above referred to must be brought into play."

The contest was inaugurated to demonstrate the ease with which beautiful plants of the fuchsia may be grown for spring or summer sales, and many photographs were received in response to the offer. All these pictures were submitted to Prof. John F. Cowell, Director of the Buffalo Botanic Garden, whose decision is made known in the following letter:

ED. AM. FLORIST:—After carefully looking over the fuchsia photographs and considering the conditions as published, I award the prize to Mr. Peter Crovetto, of Millbrook, N. Y., for his 5-inch pot plant of Charming, the photograph of which is here reproduced.

Other photographs submitted were probably from good plants but in some instances the picture is not distinct enough to enable one to judge the true character of the specimen.

JOHN F. COWELL.

West Seneca, N. Y., January 6, 1899.



FUCHSIA CHARMING, GROWN BY PETER CROVETTO, MILBROOK, N. Y.

The Propagation of Bulbs.

This is a most important and interesting question both for the horticulturist and the botanist; and the history of the mode in which these plants are reproduced, is perhaps the most delightful phase of their delightful and absorbing life history.

They may be multiplied by seed, but this is for the most part a long and tedious process, and usually only employed in the case of raising hybrids. Too many years elapse before the bulb is mature enough for flowering, and the patience of the cultivator becomes, consequently, exhausted. The hyacinth, *e. g.*, demands a youthful immature career of some five or six years before it can feel energy and power, and ripeness enough to throw up a flowering spike. Some of the smaller bulbs, however, are frequently grown from seed, such as the snowdrop and squill, for these do not take so many years to mature their bulbs for flowering. The majority, however, such as hyacinths, tulips, narcissi, crocus and gladiolus, are propagated, when the bulb has reached a certain age, vegetatively, or by means of ordinary stem-branching,



Fig. 128.—Plant arising from a bud on leaf of Curculigo.

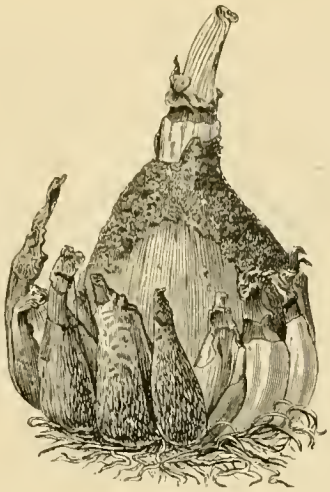


Fig. 129.—Method of natural increase of bulbs in Narcissus.

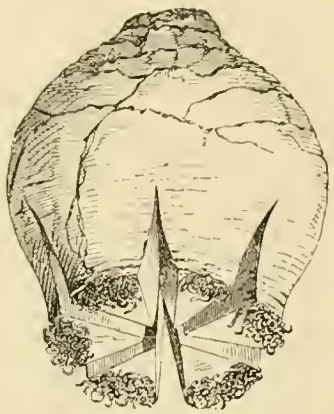


Fig. 130.—A method of Hyacinth propagation by notching the base of the bulb.

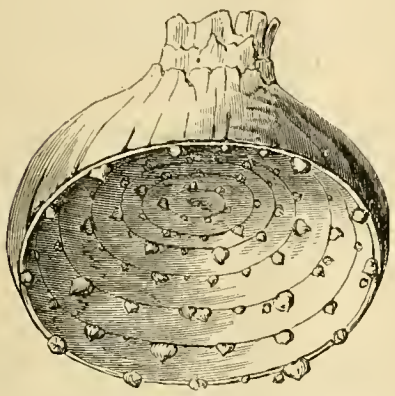


Fig. 131.—A method of Hyacinth propagation by scooping out the base of the bulb.

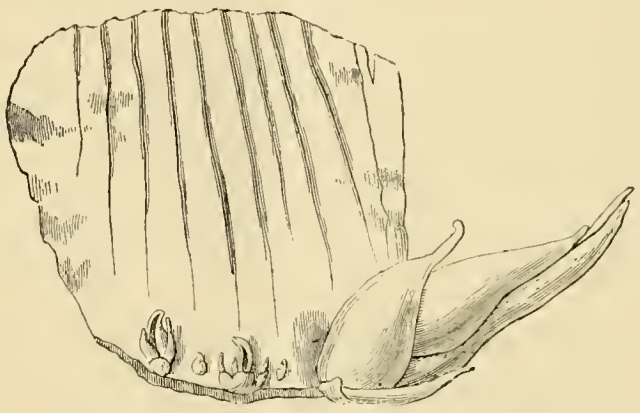


Fig. 132.—New bulbs arising from a bulb scale of Lily.

i. e., that in the axil of one or more of the foliar organs, or scales, a branch arises in the form of a swollen bud, developing fleshy appendages, or scales, like that of the main axis, until, eventually, it grows into a bulb like its parent, which latter decaying, it eventually replaces. Great numbers of such young bulbs may be produced by the parent; obviously a most convenient and rapid method of propagation.

The young bulbs are formed laterally, often in great numbers all around the parent in the axils of the scales of the latter, in the typical bulb. In the gladiolus and crocus, when the foliar organs or scales do not constitute the "bulb," the young corm is necessarily produced as a lateral branch in the axil of a scale-leaf at the top of the parent corm, for in that region is situated the growing point. The young corm then gradually replaces the old one below, which dies.

When the bulbs are taken up in the spring or early summer for housing, the young bulbs are all removed and reserved for planting in separate beds the following autumn, thus freeing the old bulb from the encumbrance of their support, and enabling it when replanted to concentrate its vital energies on its own growth and maturation.

A very interesting and useful method, which is adopted in the propagation of the hyacinth, consists in making two or three longitudinal slits across the underside of the bulb, *i. e.*, in the rudimentary stem, after removal from the ground. When placed on the shelf to dry, it is not long before numbers of tiny young bulbs are formed at the margins of each slit. Another means employed for gaining from each bulb a much larger number of offspring than is produced by nature in the soil, is that of scooping the bulb on the under-side, so that a large bowl-like cavity is formed, lined with the cut transverse surfaces of the fleshy scales. At the margins of these surfaces sprout very numerous young bulbs of very small size, representing so many tiny individual plants; these are all separated and grown apart in the autumn. It is well to study the raison d'etre and learn the biological significance of the production of young bulbs by these processes.

When a plant or part of a plant is wounded in any part of its tissues, it immediately sets to work to heal the wound which has been made; and this is effected by renewed growth on the part of the tissues immediately adjoining the injured part, so as eventually to cover over the wound by a protective callus. Some plants, but by no means all, have the power of producing, under certain conditions, offspring from nearly every organ, especially from the leaves; the instances of some ferns, begonia, curculigo (Fig. 128), streptocarpus, occur to us. If an incision be made in a detached leaf of a begonia lying on damp soil or sand, an entire new plant or plants will be formed at the margin of the incision. Numerous cases of natural adventitious budding will occur to us. This same power is possessed by bulbous plants. We have already seen how entire new individuals may be formed from ordinary branches of the stem in the ordinary natural method of bulb-propagation (see illustration of narcissus, Fig. 129). That is a not uncommon phenomenon, for we know that very many plants have the power of forming new individuals from their branches or portions of their stems, as in cuttings. In the first named slicing method of hyacinth propagation, it is the stem which is chiefly affected, hence we see here a case of adventitious budding from the stem of the same nature as the phenomenon of multiplication by means of cuttings. In the second-named method, however, that of "scooping" and "notching" (see Figs. 130, 131), it is the foliar organs, the scales, equivalent to ordinary foliage leaves, which are affected, and hence we find here the same phenomenon of the production of new individuals from the leaf as in the begonia, for the tiny bulblets are formed all round the cut edges of the scales.

Now, in all these cases of adventitious budding, as the result of wounding in some way or other, the energy which in ordinary cases of wounding is used solely and simply for the healing of the injured part by the formation of the simple callus-tissue, is in those cases which we have had under consideration, as well as in others, directed toward the building up of a new individual, with all its complex, differentiated tissues. For these cases are generally those of fatal wounding of the plant or organ, in which the possibility of renewed life and growth is precluded forever. And then the instinct of the plant asserts itself in the endeavor to create a numerous progeny capable of continuing the thus violently interrupted

life-cycle—just as the production of great quantities of spores is induced in many fungi and algæ when unfavorable outward conditions prevent a continuance of their normal vegetative growth. Very fortunate and convenient for the bulb grower is this habit of economy and desire for offspring on the part of the plant.

This same faculty in the plant of producing new individuals from the vegetative organs by adventitious budding is seen in some of the lilies (see Fig. 132). We used to propagate Lilium auratum, the beautiful Japan lily, in part, by pulling some of the bulbs to pieces and sowing the separate scales in sand, for each scale is capable of producing a new plant from its injured basal end, when thus detached and isolated from the bulb; offering, in fact, a similar instance to that of the begonia and streptocarpus leaf, and compensating by this rejuvenating process for the entire destruction of the parent bulb.

The main reasons for the annual removal of the bulbs from the soil, and storing them until the planting season again recurs, are the following: The young bulbs can then be detached and sorted from the others; the bulbs are secured thereby from the dangers of mice, and from accident from rain or drought; the decaying or unhealthy scales and roots can be removed, allowing a freer circulation of air, and freedom from infection by bacteria to the remaining parts of the bulb, and a longer rest and respite from growth is allowed to the bulb than they would get if left in the ground, and have a likelihood of their more profuse flowering next spring.

A method of cultivation of hyacinth bulbs, familiar to every lover of flowers, demonstrates clearly the nature and function of the "bulb" as the storehouse of all the food substances necessary for the production of the leaves and flowers. This is the practice of growing the bulbs in glass vases of water, so that the latter just bathes the base of the bulb, when long roots can be seen growing out and downwards through the transparent liquid. The uninitiated will sometimes wonder, doubtless, how the bulb can thus throw up leaves and flower-spikes without any soil around it, being acquainted with the fact that bulbs are usually grown under the garden mold. But to the interested grower who understands something of the common laws of plant-life, and the functions of the various organs of a plant, before commencing the attempt of the successful cultivation of an organism like a bulbous plant, the case is fairly simple and easy of explanation. For the bulb contains within its own thick fleshy scales nearly all the nutriment necessary for the development of the aerial flowers and leaves, whose rudiments are already laid down within the heart of the bulb. The roots supply the water, which will also contain a few of the salts in solution which are needful for the growth of the flower and foliage. So far, however, and no further, can this pretty method of water culture proceed. For the permanent growth of the bulb under such conditions would be impossible; because the water, unless it were specially prepared for the purpose, cannot supply all the requisite salts so essential to the plant, which are found in the soil. If sufficient skill, labor and patience were afforded, however, water culture would be quite possible, at least, for a certain length of time, as an interesting hobby and experiment; but for all practical purposes it would be useless, and is quite contrary to nature.

In conclusion, I would say that bulbous plants, like other members of the vegetable kingdom, are to be treated under cultivation in accordance with their peculiar organization, structure, and habits, and I am convinced that the perfection of horticulture will alone be attained when an interested and familiar knowledge of the structure and life histories of plants is united to a thorough and practical acquaintance with their treatment in the garden under cultivation.—*Adapted after W. C. Worsdell in the Gardeners' Chronicle.*

Plants Versus Holiday Cut Flowers.

This is a question decided wholly from one's point of view. Mr. Herr, on page 678 of the last issue of the AMERICAN FLORIST, seems to step out of his own sphere and decides off-hand questions affecting two classes of business in which he has had, apparently, little experience.

As to the storekeepers' proper business policy, that is a matter for them to decide; not for the grower, unless he chooses to become store keeper. However, the general proposition that the merchant watches closely the trend of popular taste, and shapes his stock to best supply that popular demand, will hold as good in the florist's business as in any other.

At the present time the cut flower grower is reaping a just inattention from the consuming buyer for his foolish attempt to dictate to the public what that public should and should not buy. In the magnificence of his own conceit, made more magnificent by his complete isolation from the flower buying consumer, he attempted to usurp many of the rights which the consumer himself exerts or else refuses to purchase.

The screed was announced that no new plant or flower should be sent forth without a certificate of growers, who were to decide by rules and scales whether or no the candidate was a proper subject for growing, sale, etc., and the rank and file purchased the successful candidate ad libitum. The retailer was flooded with an avalanche of indifferently grown material and a novelty price demanded therefor, and much to his chagrin he found a sickening sameness creeping into the stock in which he could trade, and in many instances the same wares hawked before his very place of business at less prices than he was obliged to pay for his stock.

Naturally his mind sought some relief, and he found in the plant grower a more plastic and accommodating source of supply. His customers welcomed the change; the business was more profitable than cut flowers had become. These facts settled the question, as they will always settle it whenever a change comes under consideration, and the cut flower grower reaped but the natural result of the laws of supply and demand. This is the cause for the change of which Mr. Herr complains, stated from my point of view.

Possibly a more exaggerated misstatement of facts could hardly be made than Mr. Herr's assertion that the growers of first class carnations who really make a profit can be counted on the fingers of one's hands, and, if carefully sifted down, on one hand. Bless your soul, Mr. Herr, it would take the best hand you have to count the successful growers of good carnations around New York City. Indeed, Long Island alone can fill your hand. Dailledouze, Suydam, Bell, Rath, Allen and Besold more than fill your hand already, with our own humble place as well as several others out of the question.

None of the above candidates have as yet applied for admission to the county poorhouse, though I understand the Dailledouze boys have been getting a "little closer" to that institution lately. And I will further venture that at least five more successful growers can be picked up around New York from Jensen, of Mamaroneck, to Asmus, of Hoboken. Even the staid old rosarian, Jno. N. May, pulls a pretty steady oar in carnations, and my neighbor, Jno. H. Taylor, has visions of acres of carnation houses since the last bulge in Calumet and Hecla.

Boston will hold up the names of Peter Fisher, Wm. Nicholson, F. A. Blake, H. T. Cook and others whom Mr. Herr will scarcely wish to class as anything else than producers of good stock. That jolly young athlete, Will Craig, of Philadelphia, sported a brand new suit the last time I saw him, and the cares of his carnation range evidently sat lightly on his shoulders. In the west Fred Dorner & Sons Co., Wietor Bros., Bassett &



SEEDLING KENTIAS IN BENCH.

Washburn, the Chicago Carnation Company, and some others, are all moving toward the poorhouse in the same way that the Dailledouze boys have been doing. Mr. Herr must hold up more digits! Mr. Herr is off!

However, he is right on one point; the grower of good stock should have an increased price for first class flowers at Christmas and Easter, and our experience has been that he always gets it provided his stock is fresh and up to standard. I have heard growers who held back their stock to the last day and then sent in a mass of tired flowers, with a few fresh blooms and some partially developed buds, kick like steers because they did not get the highest market returns.

So far as our experience goes, we have never had any difficulty in selling a first-class carnation that pleased the public taste at a reasonably profitable price at any period of the year. The remedy for the cut flower grower who is not receiving remunerative returns for his carnations is to improve his methods of culture and his list of varieties until his product is attractive enough to bring the price, or else, as Mr. Herr suggests, go to growing plants. C. W. WARD.

Queens, N. Y.

Wrinkles in Palm Culture.

That there is a growing demand for palms and all kinds of foliage plants there can be but little doubt, and the large increase in glass area given up to the growth of this class of stock with each recurring season, producing no excess except occasionally in a few lines, goes to prove that the love for plants is increasing, the stock being used up as fast as produced. This is a healthy state of affairs and should be a great incentive to growers to increase both the quantity and if possible the quality of their plants. The quality of the stock offered has much to do with its popularity and sale. The people are attracted by perfection. The prima donna demands extravagant prices which are eagerly paid while singers of great ability but without the finished voice are scarcely noticed and command but ordinary salaries. It is the same way in other lines; the record breaking man or horse attracts thousands while others very nearly as good go almost unrewarded.

This principle holds good in every department of the florists' business. It is the extreme finish put upon the plants and flowers through the skill of the grower that attracts the best customer. Not only with this class of stock is the price obtained a good one, but the excellence of the product draws the attention of the visitor and the temptation to buy, which did not exist before, is created and the sale made. The plant has successfully fulfilled its mission so far as the florist is concerned, except for the good it may still do by promoting sales of others of its kind. This virtue of excellence is recognized by most of the up-to-date growers of to-day and every convenience at their command is used to bring their plants and flowers to the highest state of perfection. A better knowledge of the habits and requirements of palms has enabled growers of late years to place their finished product on the market in a much shorter time than formerly. One of the greatest strides is made in handling the young plants from the sowing of the seed until they are ready for from 4 to 5 or 6-inch pots.

Kentia seeds were formerly sown in pans or pots, later in boxes of soil in order that they should not become root bound so soon, and now the better plan where a large quantity is grown is to use a side table or bench where the young stock is allowed to grow and attain quite a size before being transplanted to another bench, where they are given more room and develop into very stocky plants still holding their seed leaves. If the conditions are right they rarely receive a check when treated in this way and their rapid growth seems to keep them entirely free from scale or other insect pests. In every batch of kentia seeds there are many—probably the percentage is one-half—that start away first, develop more vigor and in a short time are twice the size of the weaker seedlings. This is accounted for by some who believe the stronger plants come from better ripened seed, although the good seed cannot be selected by sight as might be thought possible.

The pictures herewith reproduced show a batch of Kentia Forsteriana seedlings on a bench and a single plant the first season in a pot. The latter affords a good illustration of the short, stocky growth obtained by raising the plants in benches instead of the pots, pans or boxes heretofore employed. K.



KENTIA FIRST SEASON IN A POT.

Louisville, Ky.

The Kentucky Society of Florists held its annual meeting at Music Hall, in this city, on Tuesday evening, January 3, and installed the following officers:

President, C. H. Kunzman; vice-president, Jacob Schultz; secretary, Joseph Coenen; treasurer, Sam. P. Thompson.

After the meeting, its programme and ceremonies, the large number of members present partook of a banquet which was a credit to the chef.

CARNATIONS.

CULTURAL NOTES.

January 14.—Some growers make it a point to take large, heavy cuttings which present a fine appearance as soon as rooted, but my experience has led me to pin my faith to the side pips from the flowering stems or at the base of the heavier branches. I cut off the strong growing branches, and allow the side shoots a better chance to develop, as by this method one can get a goodly lot of strictly first class cuttings, and thus propagate a new or scarce variety in greater numbers than would be possible by waiting on the pips from flowering shoots. But it is unnecessary to sacrifice the flowers unless you are very short of stock.

There is this difference between the cuttings made from the tops and those made from tips or side shoots: The tops make finer looking cuttings, but not such fine plants; neither will they produce as much bloom as cuttings made from pips or side shoots.

Especial care should be used in making the cuttings to see that the plants from which they are taken are in the best of health. Some growers would not propagate from a plant that had a few dry leaves around the bottom yet where the dry leaves are the effect of drought and the plants are otherwise in good health, just as good cuttings can be taken from them as from any others.

Bacteria and stem rot are the two evils to exclude most carefully in the selection of your plants for propagation, as both are liable to be carried over into the young stock. For example, the grower who propagates Flora Hill indiscriminately will, before many years, have his stock in such condition that he will class

it with the run out sorts, but he will find it a hard variety to beat in the hands of a grower who selects his stock carefully.

After selecting a good healthy cutting, there should not be much trouble in getting it to root. Trimming the lower leaves off is largely a matter of choice and, as we are putting in the cuttings, we take off a few of the largest leaves and any that may be in the way of making a neat job. It is not necessary to have a special brand nor special degree of coarseness, but it is well to have sand that is porous enough not to pack solidly and does not form a crust. It should be put on the bench not less than three nor more than four inches deep and saturated well before, and again after, the cuttings have been put in.

Paper or muslin shutters are the best shading. The temperature of the sand should be about 60° for the first ten days, with the top temperature as nearly 50° as possible. At the end of that period they should be pretty well callused and if you are anxious to get them rooted quickly the temperature of the sand can be gradually increased until it reaches 70°, but without increasing the top temperature. After they have formed roots the shading should be taken off and they should be allowed to harden up a little before being taken out.

Carnations can be rooted without bottom heat and in the house in which the plants are growing, but if you have any quantity to root it will pay you to rig up a propagating bed and follow the above directions as nearly as possible, taking care not to have the sand at any time warmer than 70° as there is danger of weakening the cuttings.

Some growers spray their cuttings every morning and some varieties stand it pretty well, but others, such as Daybreak and Triumph, if kept constantly wet in the propagating bed will have "spot" more or less developed by the time they are rooted. When the sand needs water give it early in the morning and on a clear day if possible, so that you can have the cuttings dry again by night. Direct currents of air should not be allowed over fresh cuttings but the house should be well ventilated, as a close atmosphere will surely breed cutting bench fungus. A preventive of fungus is to water the cuttings with the copper mixture recommended for carnation rust.

ALBERT M. HERR.

CARNATIONS REGISTERED.

The following carnations have been registered under the regulations of the American Carnation Society:

By E. G. Hill & Co., Richmond, Ind.—America.—Color a rich, soft scarlet; large in size, of extra robust growth, free in production of bloom; a good commercial sort.

By H. A. Cook, Shrewsbury, Mass.—Dorothy Mandell.—Color a pure rose pink; large flower, long stem and prolific; a strong grower and vigorous, like Wm. Scott, but of a more open growth.

By F. Dorner & Sons Co., Lafayette, Ind.—G. H. Crane.—Color a brilliant scarlet, keeping its brightness and does not dim with age; large, perfect flowers well built up in the center and a strong calyx that does not burst; stem sixteen to eighteen inches long and stiff, holding up the flower in the early part of the season as well as during the later spring months; plants strong and well formed with hard broad foliage; easily grown and quickly established; an early and continuous bloomer, being thickly covered with buds for the holidays.

By John N. May, Summit, N. J., and Robert Craig & Son, Philadelphia, Pa.—Melba.—A grand combination of good qualities; free bloomer, early and continuous; in point of color the finest pink carnation yet produced; large and perfect in form, very fragrant and with a long stiff stem.

By L. A. Moore, Unionville, Pa.—Moore's Crimson.—A free flowering, perfectly healthy variety, early and continuous in bloom.

By Joseph Towell, Paterson, N. J.—Gov. Griggs.—A strong, healthy grower; continuous, free bloomer, with stiff stem, and in color similar to Daybreak but brighter; of good shape, with full center and does not burst; beautifully fimbriated.

ALBERT M. HERR, Sec'y.

DORNER'S G. H. CRANE.

This is one of the leaders among the novelties now offered. It is an excellent scarlet with large flowers and good calyx and stem. The blooms are produced freely throughout the season and never come washy. This variety received the American Carnation Society's certificate at Chicago, February, 1898, scoring ninety-two points; certificate and silver medal at the Chicago chrysanthemum show, and certificate at Indianapolis last November. A vase of the flowers, as exhibited at Chicago last February, is shown on page 780 of the AMERICAN FLORIST, Vol. XIII. The illustration herewith reproduced is from a photograph of a house of this variety at the establishment of F. Dorner & Sons Co., Lafayette, Ind.

Florists Visit New Castle, Ind.

An invitation was extended to the Indianapolis Florists' Club and to several leading florists in the state to visit the South Park Floral Company at New Castle, Ind., on Thursday, January 5, and about fifteen were present to enjoy the hospitality of Hellar & Co. and to view some of the finest carnations, violets and roses in the west.

The Indianapolis train arrived about 7 a. m., and we were informed that some of the boys had to awaken about 3 a. m. to catch the train. Nine were present from Indianapolis, but no doubt there would have been fully double this number had there been a later train. Among the other visitors were Stuart & Haugh, of Anderson, Fred Lemon, Richmond, and W. W. Coles, Kokomo. The Kokomo man, however, did not arrive until after the Indianapolis boys had returned home, much to his disappointment. On reaching the greenhouses, ten in number, we found everything in the pink of condition. In fact, it was acknowledged by every visitor present that they had never seen a place so uniformly good throughout. Fred Lemon, who has spent a year in the vicinity of Summit and Madison, N. J., declares he never saw such fine roses, and the boys had to pull him and Henry Rieman out of the Bride house to catch the train for home.

The houses are all connected, with no partition walls between, somewhat after the style of Dreer's, at Riverton, or Reinberg's at Chicago. This gives a free circulation of air through the houses, which I believe is beneficial to the growth and welfare of the plants, besides being much cheaper in construction. We were first taken to one of the Beauty houses, 25x132, in which there were two benches of old plants and two of young ones. There were good strong shoots all over the house from five to eight feet long and full of buds, with a splendid crop starting from the bottom, and not a sign of mildew or black spot. The preference was given to the old plants.

House No. 2, 25x132, was full of Kaiserins, now in a semi-dormant state but in good condition. No. 3, another Beauty house 24x110, about half each of young and old plants, was equal to the first. The next house, 20x110, was filled with Bridesmaids and Brides in splendid condition. But the crowning house of this fine establishment was one 20x110 filled with Brides—old plants. There was a perfect shower of buds, and good ones, too, many of the stems being three feet long. The next house, 24x120, was planted with old Bridesmaids just coming in crop, and in a few weeks will be as fine as the preceding house of Brides.

Houses Nos. 8 and 9, each 24x120, were planted to carnations. The varieties doing the best were Triumph, Albertini, McBurney and Helen Keller. Jubilee was also in fine form. Notwithstanding the carnations were in as good shape as one could wish, Mr. Hellar informed us it would be their last year to grow carnations as roses pay them much better. The last house, but not least in point of profit, was filled with California violets. The plants were small, but flowers large and plenty of them. John Hartje, of Indianapolis, remarked it was the grandest thing there. They had just picked 500 for the Chicago market, but the plants had the appearance of furnishing that many more without being missed.

Wm. Dittman, the foreman and grower,



HOUSE OF CARNATION G. H. CRANE AT DORNER'S, LAFAYETTE, IND.

deserves the credit of producing this fine stock, as he has full charge of everything. One of our party remarked that the South Park people had struck a good soil to produce such good results, but Henry Rieman answered that he was sure they had struck a good grower. It is seldom that we can go through a place of this size without finding one or two poor benches, or at least bad spots, but this place was paying good interest on the investment on every foot of bench room.

It may not be amiss to give in a brief way Mr. Dittman's treatment for old plants which he carries over. Beauties are removed to the open ground, after being dried for about two weeks. About the middle of June they are heeled in and given natural outdoor treatment, never watered or touched for about four weeks. They are then removed to the rose houses and replanted in new rose soil. They are cut back to within about ten or twelve inches of the base and kept on the dry side until nicely started, after which they receive the same treatment as young plants. The treatment of old Bridesmaids and Brides is somewhat different. They are not removed from the bench where they have grown, but are allowed to get pretty dry at the roots for some four or five weeks, beginning about the middle of June. About the end of July all weak shoots are cut out and the strong canes bent over, old soil scraped off to the roots and top-dressed with two-thirds manure and one-third soil. The soil is kept on the dry side until the plants get into strong, vigorous growth in late fall. The violets are in pots and grown under glass all summer. From this house, 11x120, 2,700 were shipped for Christmas. They also shipped over 900 Beauties for Christmas. The South Park Floral Company consigns to E. C. Amling at Chicago. W. W. COLES.

New York.

CLUB MEETING.—VARIOUS COMMITTEE REPORTS.—A PROSPEROUS YEAR FOR THE ORGANIZATION.—MEDALS WON.—CHANGE IN INITIATION FEE.—PROMISING NEW CARNATIONS.— BUSINESS MODERATE.— VIOLETS OVER-ABUNDANT.—HARD TIMES FOR SMALL ROSE GROWERS.— AN IMPOSING HORTICULTURAL STRUCTURE.—BUSINESS CHANGES.— PERSONAL MENTION.— DEATHS AND OTHER BRIEF NOTES.

The January meeting of the Florists' Club was not as well attended as some of its predecessors but was, nevertheless, a very interesting occasion. Many matters of detail in the working of the organization were adjusted and a good start made on the business of the new year. The award committee reported through its chairman, A. S. Burns, that they had visited the greenhouses of J. N. May and inspected the new pink carnation, Melba, which they found entitled to a certificate, having scored 85 points. Secretary Young reported that the medal competition for the year 1898 had resulted in the winning of the gold medal by W. A. Manda, the silver by C. W. Ward and the bronze by Thomas W. Weathered's Son, and it was announced that the medals, suitably engraved, would be presented at the February meeting.

The report of the essay and entertainment committee was presented by W. J. Stewart and showed that eight interesting lectures had been provided during the year, including one stereopticon exhibition, one ladies' night with refreshments and one smoker in December, all of which had been well attended. For the legislative committee, Mr. O'Mara reported that the work done recently had been under the supervision of the S. A. F., and that a full account of its doings would appear shortly in the trade papers. Reports of Secretary Young and Treasurer Weathered showed the balance in the treasury to have increased during the year, the membership being 156, of whom thirty-eight have been added during the year and there having been but one death, that of J. D. Burnett. The proposed amendment to the by-laws in reference to manner of nominating and electing officers was defeated and the initiation fee was fixed at $3 instead of $5 as heretofore. The president made an interesting address congratulating the club on its prosperity and outlining his views as to the policy to be pursued during the coming year. He noted especially the evident drift of popularity in occasions of a social character as compared with those of a purely technical or educational nature and among the things he especially advocated were more intimate and friendly relations with sister organizations, the holding of a public exhibition, even if it should be a small one, an invitation to the S. A. F. to meet in New York City in 1900 and the support of the bowling club. Paul Berkowitz, of Philadelphia, was present and responded to a call with a neat little speech.

On the exhibition table were vases of the new carnations, Maud Adams from Frank Niquet, and Governor Griggs from Jos. Towell, also carnations, tomatoes and mushrooms from President Plumb. The new carnations above mentioned are to be introduced this season. Maud Adams is a splendid cerise and fully bears out the high promise made for it when exhibited before the club last year. Governor Griggs was now shown for the first time. In color it is an improvement upon Daybreak. The flower is also larger and commands a much higher figure than that variety as a cut flower. A limited quantity of the blooms have been on sale at John I. Raynor's and they have met with high favor among the critical florists of the city.

Business has settled down to a somewhat steadier condition than prevailed during the week of New Year's. The weather has been more favorable for the production of cut flowers, which are consequently improved in quality and are selling in most varieties at prices that will compare favorably with those prevailing at the same season in recent years, as an examination of our market quotations will show. Violets are the most disappointing feature. They are very abundant and are seen in large quantities on the sidewalk stands all along Twenty-third street, "and they're hickory nuts at that," as Charlie Carlin says.

It would appear from a careful observation of the tendencies of supply, demand and prices in the cut flower business here that the most unfortunate man at present and for the future is the small grower who, in times past, has made shipments, say once or twice a week, to the wholesale markets, saving his daily cut until the accumulation should be large enough to make a respectable-sized shipment. A certain portion of such shipments is necessarily several days old and no matter how adroitly this may be distributed among the fresh stock, such is the proficiency of the latter-day trade, curb-stone venders included, that the mixture is discovered invariably, and such lots, if sold at all, go for a song. This applies especially to the small rose-grower now, but the carnation grower is likely also to find his opportunities becoming more and more restricted, in progress of time, as big carnation factories multiply.

On January 3, ground was broken for the new Horticultural Hall, which is to be erected at Bronx Park by Lord & Burnham. The dimensions of the structure will be 60 x 512 and the dome will be 90 feet in height.

The proposed carnation exhibition by the New York Gardener's Society has been postponed until the second Saturday in February. C. W. Ward will offer a special premium to be competed for.

L. C. Bobbink has taken F. L. Atkins into partnership. Headquarters will still be at Rutherford, N. J., and the firm name will be Bobbink & Atkins.

John Nicholas is making extensive improvements in his store in Forty-second street, including a new projecting window with tiled platform.

Henry Jaeger, who has carried on a florist business on Avenue B, between Eleventh and Twelfth streets, for many years, died on January 4.

A coroner's jury that has been investigating the death of an old flower peddler named Jean Baptiste Colin, has brought in a verdict that the old man was murdered.

Greenhouse builders and manufacturers of heating apparatus report business as very quiet now, but are receiving an encouraging number of inquiries regarding work for next spring.

News has come of the safe arrival of Alfred Dimmock on the other side of the Atlantic after an unusually tempestuous voyage.

Dracæna Godseffiana has made a very favorable impression as a basket plant for the holidays and is likely to be grown and used more generally.

W. A. Prosser, of Vaughan's Seed Store, has been the recipient of no less than three baby carriages from his friends. He thinks these will be sufficient.

The first Von Sion daffodils made their appearance at Raynor's on January 5.

Visitors in town: J. T. Butterworth and wife, So. Framingham, Mass.; Mr. Lundberg, gardener to A. P. Stokes, Lenox, Mass.; T. Waters, Boston.

Buffalo.

BUSINESS IS PRETTY GOOD—BULBOUS STOCK QUITE PLENTIFUL BUT SLOW SALE.—CARNATIONS BLOOM MORE FREELY.—ROSE PRICES FIRM.—JOTTINGS AMONG THE TRADE.

Trade the past week has been fair. A few receptions have given some good orders and funeral work has been very steady for nearly a month. Hyacinths and narcissi are quite plentiful but find limited sale. Tulips made their first appearance January 7. Carnations are becoming more plentiful and vary in price from $1.50 to $3 per hundred. Violets are fair and hold their own in price. Roses show no scarcity, but the price is rather high for the ordinary run of stock. Beauties are sold in limited quantities.

D. B. Long has introduced and sold some very artistic calendars and telephone cards. His book on the care of plants, for free distribution by the trade, is a good thing and sells well.

At one time last week Kasting's wholesale house was partly a hospital. Four of his employes were ill with the grip.

Lockport must have had a holiday to Buffalo last week, as C. L. Dole, F. B. Lewis, F. G. Lewis and Thomas Mansfield were all visitors.

Jerry Brookins, of Orchard Park, N. Y., is sending in Daybreaks that are unusually large flowers on stiff stems. W. A.

THE AMERICAN FLORIST

Subscription, $1.00 a year. To Europe, $2.00. Subscriptions accepted only from those in the trade.

Advertisements on all except cover pages, 10 Cents a Line, Agate, $1.00 per inch. Cash with Order.

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

"PENNSYLVANIAN" will find an exhaustive account of modern cannas in our issue of December 24 last.

PLANTS of the improved forms of Primula obconica are in considerable demand for Easter trade.

GLASS promises to be lower this year. The high prices of last season prevented many greenhouse men from building or renovating, and some who deferred extensive changes and additions are now soliciting quotations from foreign jobbers and manufacturers.

AUSTRALIAN CHRYSANTHEMUMS have made quite a stir in England this season. The variety Nellie Pockett, originated in Australia, according to the *Gardening World*, has received nineteen certificates, including the award of merit of the Royal Horticultural Society and a first class certificate of the National Chrysanthemum Society.

Greenhouse Building.

Brunswick, Me.—John McManus two commercial houses.

Philadelphia.—E. W. Clark, greenhouse costing $600.

Germantown, Pa.—Wm. Berger conservatory and show house costing $1200.

So. Portland, Me.—E. J. Harmon, two commercial houses each 300 feet long.

Bulbs for Easter.

ED. AM. FLORIST:—Please tell me through your journal what date I should move my Von Sions, Dutch hyacinths and tulips from the cold frames, out of doors, to a house which registers from 50° to 55° at night, so as to have them in bloom for Easter. D. E. G.

From three to four weeks previous to April 2, the date of Easter this year. It will, however, he well to start the forcing process at a lower temperature than that indicated above, say 35° or 40°. GROWER.

Catalogues and Cut Flower Price Lists Received.

Jos. F. Dickmann, St. Louis, Mo., seeds; C. W. Eichling, New Orleans, La., seeds; The Samuel Wilson Co., Mechanicsville, Pa., seeds; T. W. Wood & Sons, Richmond, Va., seeds; F. Dorner & Sons Co., Lafayette, Ind., carnations; A. W. Smith, Americus, Ga., seeds; Harlan P. Kelsey, Boston, Mass., plants; Sears, Henry & Co., Geneva, N. Y., fruit trees; J. M. Thorburn & Co., New York, N. Y., seeds; August Haubner, Eisleben, Saxony, Germany, seeds; Spruyt & Co., Utrecht, Netherlands, garden seeds; Cincinnati Cut Flower Co., Cincinnati, O., cut flowers; W. A. McFadden, Cincinnati, O., cut flowers; Bassett & Washburn, Chicago, Ill., cut flowers; Holton & Hunkel Co., Milwaukee, Wis., cut flowers.

Cement Joints for Cast Iron Pipes.

ED. AM. FLORIST:—Will cement make a satisfactory joint for cast iron pipes? I have been told such joints are not uncommon, but feel doubtful as to their contracting and expanding with the pipe satisfactorily. Z.

[Cement joints have been tried quite extensively in recent years and they are said to compare favorably with any other kind. In making these joints, however, it is necessary that the preliminary packing be thorough.—ED.]

Some Recent Fires.

GOVANSTOWN, MD.—The greenhouse at the country place of Henry M. Walker on York road was destroyed by fire January 6. The flames resulted from an overheated furnace and destroyed about 2000 plants, valued at $1000, besides the structure, which was worth $300.

HARTFORD, CONN.—On January 3 a workman at John Coomb's greenhouses placed his lighted pipe in a pocket of his coat and laid the garment aside. The blaze which resulted broke 400 panes of glass 16x24 and did much damage to stock. The loss is partly covered by insurance.

NEW YORK MILLS, N. Y.—At 3:30 a. m. on January 2 the rosehouse and house of general stock of Mrs. W. D. Wolcott was destroyed by fire caused by an overheated furnace. The loss was very large, particularly on stock. The buildings were insured for a portion of their value.

Philadelphia.

TRADE IS NOT AS BRISK AS IN PREVIOUS WEEKS.—DEMAND EQUAL TO SUPPLY, HOWEVER.—ROSES OFF CROP.—CARNATION JOTTINGS.—LILIES CAUSE ANXIETY.—A VISIT AT SCOTT'S.—GRAFTED ROSES.—NOTES AND COMMENT.

While business is not slow it lacks that snap and go that was so evident just previous to the holidays. There are still a few debutantes and an occasional wedding which, with the dinners and balls and mortuary occasions, keep stock in manageable form and there are no accumulations to worry over. Prices, however, are easier. Beauties are scarce, being off crop with most of the growers. This matter of all houses being off crop about the same time has received the attention of many growers with but few satisfactory results. It seems that no matter how far apart the houses are started they will get together about midwinter and continue so the balance of the season.

Carnations are a little easier in price, $1.50 per hundred buying the best ordinary. Weaver's S. S. Pennock shows up very well and he should have a vase of fine ones for the exhibition. Annie Eastburn, a fine white with a good stem, is being handled by Baker; it is much better than the average. Robert Craig & Son's Melba is in perfect form and its lovely pink color is rapidly making it a favorite. It sells readily at $6 per hundred. Violets are also down. Mignonette is plentiful. A few Harrisii are in. J. Atkinson, of Edgewater, is first in with freesia, as usual.

How are your lilies? This is now a leading question when growers get together. Easter coming early is making many men nervous as to whether their stock is forward enough. There does not seem to be as much disease as last season.

A number of batches of Crimson Rambler are being moved in to get started, as it requires time to get it in without forcing, which process so often spoils the crop at the finish.

E. G. Hill was in town the early part of the week. His mission, it was said, was looking up novelties, particularly in carnations. He carried Robert Craig away with him. He expects to be absent for a week or so.

A visit to the establishment of Robert Scott & Son, Sharon Hill, about fifteen minutes ride from town, shows everything to be progressing nicely there. A house of Beauties looked very well, as did two houses of Bridesmaids. Liberty, the new red rose, was the center of attraction, and while off crop at present, will soon be on with another. A house mostly Kaiserin had borne heavily all season and even now, when the rose is supposed to be resting, they were producing many fine blooms. Most of the stock was planted in prepared ground beds with cinder and brick-bat drainage, which saves the expense of benches and seems to answer just as well for many varieties. Mr. Scott is a firm believer in grafted roses and makes a specialty of this class. His stock of grafted plants will number about 45,000 when they are all worked up and ready for the market next spring. He claims to be able to produce better plants than the average florist, who is a novice at grafting, as he has learned much by experience. His grafts are nearly all successful now, whereas he had failures at first.

W. H. Taplin will have charge of "Plants for the Home" at the farmers' institute to be held in Horticultural Hall on January 17. Robert Craig was assigned the subject but declined on account of other business.

Geo. Moss, the Seventeenth street commission merchant, is spreading out and has taken the store next door to his present quarters, his new number being 32 South Seventeenth.

W. F. and Adolph Gude, of Washington, spent two days with the trade in this city the past week. Harry Bayersdorfer had them in tow one evening and it goes without saying they had a good time. K.

Chicago.

WHOLESALERS FIND BUSINESS MUCH BETTER THAN A YEAR AGO.—ROSES OFF CROP.—WHITE CARNATIONS SCARCE.—VIOLETS IN PROFUSION.—THE BURLINGTON TO GROW PLANTS.—BUSINESS CHANGES.—JOTTINGS IN THE TRADE.

It is the consensus of opinion that business for the first two weeks of the new year was fully half again as heavy as during the same period of 1898 and there is a general buoyancy in the market which presages a prosperous season.

Of course trade is not on the holiday level but it is moving briskly along and the demand is such that good flowers are absorbed with avidity and stock must be poor indeed which does not command a sale. It seems that roses are very generally off crop and the supply is neither heavy nor of extra quality. American Beauties continue to be in excellent demand and are more than ever the leading flower in this market. Meteors are scarce but are of somewhat improved color. Good Brides, Bridesmaids, Perles, Kaiserins and Woottons are in demand and occasional lots of the rarer

roses, both new and old, are taken on sight.

Despite the increased plantings of carnations last fall there have not been enough in many lines to supply the winter's demand, although there may be an overstock later. Calls for funeral flowers have exhausted the whites this week and resulted in an increased sale for other blooms. Carnations have sold at all the way from 50 cents to $6 a hundred, but $1 to $1.50 has been the prevailing price. Mrs. George M. Bradt continues to command the top figure.

The violet crop this year is a big one and $1 has bought four good bunches of fragrant flowers this week. But the violet seems to be even more popular than ever this season and there is a market for immense quantities so long as the price remains on a medium level. Bulbous stock has met with little sale except for funeral purposes.

Superintendent J. D. Besler, of the Burlington Road, states that his company will build a greenhouse 20x60 at Aurora, to be heated by the exhaust steam from the shops at that point. It is not the intention to grow cut flowers, but to provide geraniums, coleus and other bedding plants for decorating the station grounds along the line. The cut flowers for dining cars will, as heretofore, be supplied by Bassett & Washburn.

W. J. Coxe, who was with C. J. Deane in the Albion Floral Company, has opened a neat store on Forty-seventh street just east of Lake avenue and just across the street from the Kenwood club. Mr. Deane is now in business with a former partner at Thirty-sixth and Cottage Grove.

Lena Meyer has caused an execution for $3,198 to be levied upon the twenty-four greenhouses and stock of her brother, J. C. F. Meyer, 1116 Dunning street. The claim is for money advanced and is fully secured.

Just to show that he retains his youth J. A. Budlong skated forty miles or more on Monday, from Bowmanville to the head of the North Branch of the Chicago river and back again.

The Hinsdale Rose Company reports that its product brought just fifty per cent greater returns in the five months from August to January than it did in 1897.

The annual meeting of the Chicago Horticultural Society will be held at the Sherman house this afternoon.

Harrisii lilies are now down to $1.50 per dozen, the level at which they rested last Easter.

Andrew Miller, of the Central Floral Company, has recovered from an illness.

Washington.

TRADE VERY SATISFACTORY UP TO A RECENT DATE.—W. R. SMITH AGAIN ILL.—GRIP IS VERY PREVALENT.—PRESIDENT GUDE'S CHRISTMAS GIFT.

There is nothing especially new or interesting to the trade in general. Business has been very satisfactory up to the present time, stock having been good as well as trade. Both, however, went off crop last Friday and since that time have been scarce, poor and likely to remain so for about ten days.

Ex-President Wm. R. Smith is again confined to the house with a bad case of that fashionable disease, La grippe, which has considerably interfered with the florists, and especially their help, in the past six weeks, some of the larger firms having three or four men on the sick list all the time. But it is no wonder that people are sick with summer weather one day and zero the next. From December 31 to January 2, in forty-eight hours, the temperature fell 66°, and two days later the rise was equally marked.

F. W. Miller, Jr., has been on the sick list since October 19, being afflicted with rheumatic gout in one of his ankles. He recently reported for business but after working half a day his foot gave way and he has since been unable to walk. Mr. Miller being an unusually energetic and active young man makes it all the harder for him to remain quiet, being otherwise perfectly healthy.

It was on December 19 that President W. F. Gude, of the S. A. F., received his Christmas present. It was a baby girl. P.

OBITUARY.

JAMES W. HURTT.

After a prolonged illness with dropsy James W. Hurtt, Circleville, Ohio, in December, succumbed. He was a retail florist for several years and leaves a wife and six children. His age was sixty-eight.

CHARLES BAUMGARTEN.

Charles Baumgarten, whose establishment at 320 West Water street is a leading one at Milwaukee, Wis., died January 10, after a long illness with cancer of the stomach. Mr. Baumgarten succeeded his father, who was one of the Cream City's pioneer florists, in the business and is widely known in the trade.

CARL GREIVELDING.

Mrs. A. Guillaume, the La Crosse, Wis., florist, has received word of the death of her father, Carl Greivelding, in Luxemburg, Germany. He was eighty years of age and leaves a wife and one daughter other than Mrs. Guillaume. Deceased was known by many of the Luxemburgers in the trade in this country.

JAMES B. WENDALL.

For many years James B. Wendall conducted a small florist business at Waterville, Me., where he grew all his own stock and sold it at a stand at the old city hall. He was one of the oldest residents of the city and was 87 years of age at the time of his death, January 2. He was forced to give up business long since.

ROBERT CHRISTIE.

A native of Scotland, and in his seventy-sixth year, Robert Christie, for over tweny-five years in charge of Senator Wetmore's fine estate at Newport, R. I., succumbed on January 2 to an attack of grip. Mr. Christie was one of the best known private gardeners in America. He was a member of the S. A. F. and a ready worker in its ranks, an enthusiastic canna raiser and forester, and an ornament to his profession. He leaves a widow, two sons and a daughter.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1899 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By young man of 18 with 2 years experience as assistant in greenhouses. Address R R., care American Florist.

SITUATION WANTED—By rose and carnation grower, well up in general greenhouse plants; single, age 24. References. A B, care Am. Florist.

SITUATION WANTED—By thoroughly practical gardener; 12 years' experience in all departments. First-class testimonials. GAZABO, care Am Florist.

SITUATION WANTED—By an experienced rose grower to take charge of commercial place, in Chicago preferred. Address ROSE, care American Florist.

SITUATION WANTED—By practical up-to-date grower of roses, carnations, 'mums, etc., 14 years experience, age 28, best references. Address L. G. BARBIER, Bloomington, Ill.

SITUATION WANTED—By practical florist 9 years experience, age 24, married, public, private or commercial place; good reference. Address stating terms C H C, care American Florist.

SITUATION WANTED—By practical grower of cut flowers and pot plants. German, single, 24 years' experience. Best of references Address FLORIST, 860 South High St., Columbus, O.

SITUATION WANTED—As all round florist or foreman, 22 years experience in growing roses, carnations, general stock, also good propagator. Best of references Address K G, care American Florist.

SITUATION WANTED—By a married man, age 38; an experienced grower of carnations, violets, roses and general plants; 15 years experience; Michigan or Iowa preferred. At liberty March 1st. Address W E K, care American Florist

SITUATION WANTED—By two young men, good hustlers (potters); understand growing palms, ferns, cut flowers; wish good, steady position from Jan. 20 on private or commercial place. Address AXEL JONSON, 531 Balmoral Ave., Chicago.

SITUATION WANTED—By an experienced rose and carnation grower. Good am. Beauty grower, first-class propagator, specialist in grafting roses. Good wages expected; married, 30 years old. Position wanted either as foreman or to take care of section of houses. No small place need apply. N D, care American Florist.

SITUATION WANTED—As foreman or section man in commercial rose establishment. Ten years' experience around Chicago in these positions. For last two years in charge of the South Park Floral Co.'s plant at New Castle, Ind. At liberty Feb. 1st. Wages expected, $18 00 per week. WM. DITTMANN, New Castle, Ind., In care of South Park Floral Co.

SITUATION WANTED—As I am about closing up my down-town store, would be pleased to recommend the young man who has had charge to anyone in need of a good man. He is thoroughly competent in all branches of floral art. His experience has been with first-class florists in New York and Pittsburg. Address E. J. PADDOCK, 1317 Euclid Ave., Cleveland, O.

WANTED—Salesmen to sell flower pots as a side line on commission. CAMBRIDGE TILE MF'G CO., Covington, Ky.

WANTED—A rose grower to take charge of a section of houses under a foreman. Apply at REINBERG BROS., 51 Wabash Ave., Chicago.

WANTED—A night fireman to attend two steam boilers. Wages, $8.00 a week. State nationality. Address with references K, care American Florist.

WANTED—First-class rose and carnation grower to take charge of six houses; must be single. State lowest wages with board, and age. Address JOHN L WYLAND, De Haven, Pa.

WANTED—A good orchid, palm and fern grower, honest, sober and industrious. I would like to hear from such a one. Address R. J. MENDENHALL, Minneapolis, Minn.

WANTED AT ONCE—A good all-round florist, one who knows how and is willing to work. State lowest wages with board and lodging. W. H. WRIGHT, 204 1st East St., Vicksburg, Miss

WANTED—In Wisconsin, good, reliable, sober, industrious man to work under directions; must have good character and ability to grow first-class roses, carnations, violets and general stock for retail trade. Must be handy around place, do tiring, etc. State nationality, age, with references from last employer, and lowest wages per month with board and room. Good place for right man. Must attend strictly to business. Address I M, care Am. Florist.

FOR SALE—Five greenhouses, five building lots and barn, 25 miles from New York in growing city. Good retail and wholesale stand; cheap. E L, care Am. Florist.

FOR SALE—Good chance for man or partners with cash. Eleven years' business in live western city of 10,000; railway division; good shipping trade; no opposition. WESTERNER, care Am. Florist.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

FOR SALE—Three greenhouses, with dwelling house; hot water heating; good retail business. Easy terms. Cause for selling, ill health. Address H. LORENZ, Cor. State and Marshall St., Mankato, Minn.

Always mention the.....

American Florist

when writing advertisers.

Grand Rapids.

LOCAL FLORISTS VERY MUCH ALIVE.—CLUB ELECTS ITS OFFICERS.—PLANS FOR A BANQUET. — ARRANGING TO IMPORT GLASS.—ON TO DETROIT.

Trade has been good here ever since chrysanthemum time arrived, and the Valley City florists are very much awake. The Florists' Club held its annual meeting on the evening of January 3 and re-elected President N. B. Stover, who comes from Grandville, seven miles away, and never misses a session. The other officers chosen were: Vice-president, William Cunningham; secretary, Henry Smith; treasurer, Henry Van Velden; reporter, Charles Chadwick.

It was decided by the club to hold a banquet at the Eagle Hotel on the evening of Tuesday, January 17, and Charles Chadwick, J. A. Creelman and Eli Cross were designated as a committee of arrangements.

The members of the club are in earnest about importing their season's supply of glass. George F. Crabb, of Crabb & Hunter, has the matter in charge and expects to soon be able to announce arrangements for a consignment from Europe at figures considerably below those which the American combine is enforcing.

Although Grand Rapids growers are too busy to aid in the general revival of bowling interest which is sweeping the country they are planning to be largely represented at the S. A. F. meeting in Detroit. It is probable that this city will not send a delegation to the carnation convention at Philadelphia, but several club members will stage exhibits.

Wholesale Flower Markets

CINCINNATI, Jan. 12.

Roses, Beauties, select	40 00@50.00
" " medium	15 00@25 00
" Brides, Bridesmaids	4 00@ 6.00
" Meteors	5 00@ 8.00
" Perles	4 00
Carnations	2 00@ 3 00
Violets	1 00
Lily of the valley	4.00
Smilax	12.50
Adiantum	1.00
Asparagus	50.00
Romans	2.00@ 3.00
Narcissi	3 00
Harrisii	12.50

ST. LOUIS, Jan. 12.

Roses, Beauties	4 00@50 00
" Brides, Bridesmaids, Meteors	2.00@10.00
" Perles	2.00@ 6.00
Carnations	3.00@ 5 00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Violets, California	.60
" single	.25
" double	.75
Roman hyacinths	3.00
Narcissi, Paper White	3.00
Callas	12.50
Harrisii	15 00
Valley	5.00

MILWAUKEE, Jan. 12.

Roses, Beauties, long.... per doz.	3.00@ 6 00
" " medium " "	2 00@ 2.50
" " short " "	1.00@ 1 50
" Brides, Bridesmaids	4 00@ 6 00
" Perles	3 00@ 5.00
" Meteors	4.00@ 8.00
" Kaiserins	6 00@ 8.00
Carnations, fancy	2 00@ 4.00
" good stock	1 50@ 2 00
Smilax	12.50@15 00
Adiantum	1 50
Asparagus	75.00
Violets	.50@ 1.00
Callas	15.00@20 00
Harrisii	20.00
Romans, Paper Whites	3.00

PITTSBURG, Jan. 12.

Roses, Beauties	12.00@50 00
" Brides, Bridesmaids	4.00@12.00
" Meteors	6.00@15.00
" Kaiserins	6 00@15.00
" Niphetos, Perles	3 00@ 6.00
Carnations, short stems	1.00@ 1 25
" long "	1 50@ 3.00
Violets	.75@ 2 50
Lily of the valley	4 00
Smilax	12 50@15 00
Adiantum	1.00
Asparagus	50.00
Hyacinths, Paper Whites	2.00@ 4.00
Harrisii per dozen	1 50@2.00

Carnation Blooms

CHICAGO CARNATION CO.

Growers of Strictly Fancy Carnations Only.

HEREWITH FIND PRICES ON THE FOLLOWING VARIETIES OF THE FINEST HIGH-GRADE BLOOMS IN THE MARKET. HIGHEST PRICES QUOTED ARE FOR BLOOMS EQUAL TO ANY EXHIBITION STOCK. WE CAN SUPPLY SAME IN ANY QUANTITY. SHIPMENTS MADE DIRECT FROM GREENHOUSES TO ALL POINTS.

GOLD NUGGET, yellow	5 to 6 cts. each
MRS. GEO. M. BRADT, variegated	5 to 6 "
MRS. JAS. DEAN, light pink	4 to 6 "
ARGYLE, dark pink	3 to 4 "
MRS. FRANCES JOOST, pink	2 to 3 "
FLORA HILL white	2 to 3 "
EVELINA, white	1½
NEW YORK, dark pink	4 to 5 "
BON TON, scarlet	4 to 5 "
JNO. YOUNG, white	4 to 5 "
JUBILEE, scarlet	3 to 5 "
VICTOR, pink	2 to 3 "
ARMAZINDY, variegated	3 to 4 "
DAYBREAK, light pink	2

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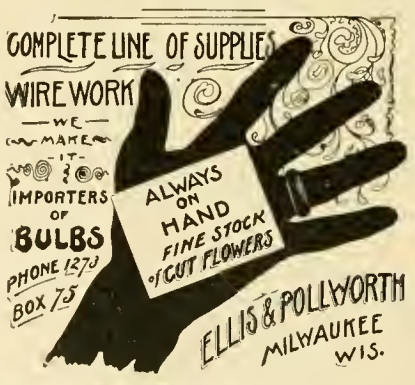
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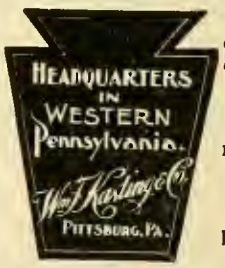
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VALLEY
FERNS
GALAX and IVY LEAVES
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Consignments of good stock solicited.

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Size 4¾x6 inches, printed in red on gummed paper with leaf adopted by the S. A. F. Price with your card, 500, $2 85; 1000, $4.50. Samples free.

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ORCHIDS...

WE have made arrangements with one of the largest Eastern growers to handle his cut and shall be in a position at all times to supply your wants.

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Cattleyas & Cypripediums A Specialty.

600,000 FEET OF GLASS.



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AMERICAN BEAUTIES.

51 Wabash Ave., - CHICAGO.

...PRICE LIST...

CHICAGO, January 7, 1899.

AMERICAN BEAUTY		
Extra long stem	per doz.,	$6.00
24-in. stem	"	4.00 to $5.00
20 "	"	3.00
15 "	"	2.00
12 "	"	1.50
8 "	"	1.00
METEOR	per 100,	6.00 to 8.00
BRIDESMAID	"	6.00 to 8.00
BRIDE	"	6.00 to 8.00
PERLE	"	5.00 to 6.00
CARNATIONS	"	2.00
" fancy	"	3.00
ROMANS	"	2.00 to 3.00

All other stock at lowest market prices. No charge for packing.

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CUT FLOWERS AND ALL FLORISTS' SUPPLIES.

HOLLY and BOUQUET GREEN.

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HIGH GRADE **CUT FLOWERS,**

PACKED RIGHT,

so they will reach you in just as good condition as they reach us.

WIRE DESIGNS: A Full Line. Write ue for our Illuetrated Catelogue.

WHOLESALE GROWER OF ROSES.

DEALER IN CUT FLOWERS.

J. A. BUDLONG,

andolph Street. CHICAGO, ILL.

Wholesale Flower Markets

CHICAGO, Jan. 13.

Roses, Beauties, extra long, per doz	6 00
" " 24 inch " "	4 00@5 00
" " 20 " " "	3 00
" " 15 " " "	2 00
" " 12 " " "	1 50
" " 8 " " "	1 00
" Brides	6 00@ 8.00
" Bridesmaids	6 00@ 8.00
" Perles	5.00@ 6.00
" Meteors	6.00@ 8 00
Carnations	2.00@ 3 00
" fancy	4 00@ 6.00
Lily of the valley	4.00@ 5.00
Adiantum	.75@ 1.00
Common ferns	.20
Smilax	12.00
Asparagus	50.00@100.00
Violets	1.50
Romans	3.00
Paper Whites	3.00@ 4 00
Callas	15.00@20.00
Harrisii	15.00@20 00
Bouvardias	1.00@ 2.00
Mignonette	3.00

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THE "OLD RELIABLE" FOR

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CUT FLOWERS

Hunt's Flowers Go Everywhere

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Bassett & Washburn

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Write for special quotations on large orders.

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A select grade of VALLEY on hand the year round.

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CUT FLOWERS of the New Pink Carnation Dorothy Mandell, received Monday, Wednesday and Friday.

THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

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Orchids!

Cut Orchid flowers of A1 quality shipped to all parts of the country. Orders from unknown parties must be accompanied by cash.

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For Decorating and all Florists' Designs.

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Wholesale Flower Markets

PHILADELPHIA, Jan. 11.

Roses, Teas	8.00@10.00
" " extra	12.00
" Beauties, extra per doz	9.00
" " firsts "	4.00@6.00
" " seconds "	2.00@3.00
Carnations	1.50@ 5 00
Lily of the valley	4.00@ 6 00
Asparagus plumosus	50.00
" Sprengerii	1.50@ 5.00
Smilax	15.00@20.00
Violets, double	.50@ 1.50
Narcissi, Roman Hyacinths	4 00
Adiantum	1 00
Mignonette	2.00@ 6.00

BOSTON, Jan. 11.

Roses, Beauties, best	40.00@60.00
" " medium	20 00@35 00
" " culls	5.00@10.00
" Meteors	8.00@12 00
" Brides, Bridesmaids	8 00@12.00
Carnations, ordinary	1.50@ 2 00
" fancy	3 00@ 4 00
Lily of the valley	3.00@ 4.00
Violets	.50@ 1 00
Mignonette	2.00@ 4.00
Harrisii	12 00@15 00
Romans, Narcissi	1 50@ 2.00
Smilax	10.00@12.00
Asparagus	50.00
Adiantum	.50@ 1.00

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Roses, Carnations, and all kinds of Seasonable Flowers in Stock.

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Consignments of Roses, Carnations, Violets solicited.

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CONSIGNMENTS SOLICITED.

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Give us an order and we will please you.

Our Greenhouses at PLEASANT HILL, MO.

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Choice Carnations Choice Roses

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408 E. 34th Street,

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Telephone 1054-38.

Wholesale Flower Markets

NEW YORK, Jan. 11.

Roses, Beauties select	30.00@75 00
" " medium	20.00@40 00
" " culls	2 00@ 5 00
" Bridesmaids, Brides	4.00@12 00
" Meteors	6 00@12 00
" Morgans, Perles	4 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2.00@ 4.00
Violets	50@ 1.00
Lily of the valley	2.00@ 3.00
Roman Hyacinths, Narcissi	1.00@ 1.50
Harrisii	10 00@12 00
Mignonette	2.00@ 8.00
Cattleyas	35 00@50 00
Cypripediums	6.00@ 8 00
Smilax	10 00@15 00
Asparagus	40.00@50 00
Adiantum	.50@ 1.00

BUFFALO, Jan. 12.

Roses, Beauties	5.00@60 00
" Brides, Bridesmaids, Meteors	4.00@10.00
" Perles, Niphetos	3.00@ 6 00
" Kaiserins	5.00@10.00
Carnations, ordinary	1.50@ 2 50
" fancies	3.00@ 4.00
Lily of the valley	4.00@ 5 00
Smilax	12.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	1.00@ 2.00
Romans, Paper White	2.00@ 4 00
Stevias	.75@ 1 00
Harrisii	20.00@25 00
Tulips	4.00@ 5.00

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Sweet Peas, Roses, Violets, Smilax, Carnations.

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Special Attention Given to Shipping Orders.

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THE BEST MARKET IN NEW YORK.

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Consignments Solicited. Telephone, 260 38th St.

Established 1891. Tel. 1615-38.

G. E. BRADSHAW,

Cut Flowers WHOLESALE COMMISSION

117 WEST 30TH STREET,

Consignments Solicited. *NEW YORK.*

CAN FILL YOUR ORDERS FOR FINE

BEAUTIES
BRIDESMAIDS
BRIDES

AND CARNATIONS.

Edw. C. Horan,

WHOLESALE FLORIST,

Write for Price List. 34 W. 29th St., NEW YORK.

ALSO

VIOLETS
VALLEY
ROMANS
NARCISSUS
POINSETTIA

Please mention American Florist when writing.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

EXTRA EARLY VALENTINE beans seem to be about the scarcest item in the list and southern growers appear to be in need of a double supply.

THE executive committee of the American Seed Trade Association will meet at the Park Avenue Hotel, New York, January 17, at 11 a. m.

LESTER L. MORSE, Vice-president and Secretary of C. C. Morse & Co., incorporated, was married to Miss Frances Pierce Maynard in San Francisco, Jan 5.

WE are in receipt of a very pretty little calendar from Jerome B. Rice & Co., seed growers of Cambridge, N. Y. Within a very small compass it contains the regular calendar for 1899, with a list of legal holidays and domestic and foreign postage rates.

THE 1899 seed catalogues do not clear up the Rocky Ford musk melon question. Many offer Rocky Ford as distinct, others offer Netted Gem only, as representing all that is needed. The AMERICAN FLORIST hopes to have the matter cleared up in plain statements of facts and requests further comments from growers who desire to bring out the exact truth as to what has given this melon its prestige in our eastern local markets against Netted Gems which have been grown at home for several years.

Cleveland.

THE GRIP AND SOCIETY DOINGS MAKE BUSINESS GOOD.—CARNATIONS ALL ABSORBED.—ROSES OFF IN CROP AND COLOR.—EADIE'S FINE LILY OF THE VALLEY.—BUSINESS CHANGES.

Business continues to be active both by reason of social affairs of various kinds and the ravages of grip and kindred diseases. The demand for flowers for funeral purposes prevents any accumulation of white. Toward the end of last week there was some slight surplus of dark pink carnations, but scarlet, light pink and white continue to be pretty well absorbed. They are, however, quite generally of rather low grade compared with last year, and while in the aggregate there now appears little or no shortage, yet individual growers continue of the opinion that production is not what it should be. Prices rule fairly steady.

Roses are rather off with many growers, both in cut and quality, stems being poor and flowers of poor texture and color. Nothing but better weather will improve them. Bate Bros. are sending in some excellent single violets, good in color and stem. Some few single tulips, notably Proserpine, are to be seen in some of the store windows, but as yet they are poor in color and short of stem.

James Eadie is cutting some of the best lily of the valley that is seen in the city. It is fairly furnished as to foliage and runs close to eighteen inches in length, many of the spikes carrying fourteen to seventeen bells. There are, of course, a few poor pips, but not enough to be figured.

Charles Erhardt has gone out of business entirely. E. J. Paddock, who formerly operated on Erie street, has abandoned that location and opened on Euclid avenue near Willson street, two miles out from the center of the city. A.

WILLIAM PLUMB,
THE HOMESTEAD,
WESTCHESTER, N Y

January 4, 1899.

Mr. G. C. Watson,

Philadelphia, Pa.

My dear Sir:

I received the Fumigator all right, and the only fault (if any at all) is the size of it. I am very favorably impressed with it. It is certainly far ahead of Tobacco in any form used, and I am writing to ask you to please send me three of the large size, and the largest bottle of Compound that you have. I want to give it a fair trial. I certainly believe it is all right.

We have a small white insect, something like a flying thrip, that "laughed" at the strongest kind of Nicotine, but this little bit of a Fumigator you send killed millions of them. They are still on the tomatoes in clouds.

Please let me have three at your earliest convenience, and greatly oblige,

Yours truly
William Plumb

Above Letter Refers to the

XL ALL FUMIGATOR and
XL ALL VAPORIZING COMPOUND,

For which I am the American Agent. New Importation just in.
Full particulars on application.

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Please Mention American Florist.

FIRST QUALITY. LOW PRICES.

Tuberous Begonia Bulbs
Single Red, White, Rose, and Yellow,
Per doz. 40 cts., hundred $2.50, thousand $23.
Double Red, White, Rose, and Yellow,
Per dozen $1.00, hundred $8.00.

Gloxinia Bulbs, mixed colors
Per dozen 65 cts., hundred $4.50.

Buy from the introducers, the Improved Strain of

Vick's Branching Aster, white
The best late variety. Per ounce $1.00.

Queen of the Earlies or Early Market, the earliest of all asters. White or mixed colors 75c. per oz.



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Write for 1899 Catalogue to.....
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Commission Handler of

HIGH GRADE CUT FLOWERS.

21 Randolph St., CHICAGO.

Announcement!

I AM pleased to announce that Mr. Lawrence P. Kelly, who has for the past ten years been connected with the wholesale commission trade of Chicago, on January 1st, 1899, assumed charge of my business, located at the above number.

Owing to the fact of Mr. Kelly's long acquaintance in this line and his complete knowledge of cut flowers, you can be assured of the best attention to your orders and the choicest stock which the market affords at moderate prices.

Hoping for at least a share of your esteemed patronage and wishing you a happy and prosperous New Year, permit me to remain

Yours respectfully,

S. B. WINTER.

The
Packing of
Cut Flowers
In a manner
To arrive
In good condition
When shipped
A distance
Is an
"ART IN ITSELF."
We claim
To know
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A trial order
Will convince
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From growers of
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A complete stock of
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At right prices.

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Choice Long Island Cabbage Seed

Of all leading Varieties and Finest Strains.

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MAKES FLOWERS FLOURISH
And
Your Profits
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EXCELSIOR PEARL, dwarf, first-class, strong bulbs, Telegraphic word "Modern" per 100 $1.10; per 1000 $8.00.

EXCELSIOR PEARL, dwarf, medium, excellent mailing size, Telegraphic word "Militia" per 100 85c; per 1000 $5.50.

TALL DOUBLE, first-class, strong, Telegraphic word "Malvern" per 100 $1.25; per 1000 $8.50.

	Per 100.		Per 100
LILIUM Auratum..... 7- 9-in.,	$4.00	*SPIRAEA Japonica*.....	$4.00
" " 9-11-in.,	6.50	" *Compacta Multiflora*.....	6.50
" " 11-13-in.,	10.00	*LILY OF THE VALLEY, "Premium" Brand*.....per 1000,	12.00
" *Speciosum Album,* 7- 9 in ,	5 00	*DIELYTRA SPECTABILIS,* per 100,	9.00
" " " 9-11 in.,	6 25		
" " *Rubrum,* 7- 9 in.,	3.75		
" " " 9-11 in.,	5.50		

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	Per 1000		Per 1000
Lilium Auratum, 7 to 9 inches at.....	$30.00	Lilium Speciosum Album, extra size, at.....	$100.00
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EVERGREEN, ALA.

Dealers in all kinds of

DECORATIVE EVERGREENS. Prices Low.

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A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

A NEW blackberry, the Mersereau, is being put upon the market.

BROWN BROS., Brighton, N. Y., are erecting a new office structure 36x100.

COL. W. R. STUART, of Ocean Springs, Miss., is styled the father of pecan culture.

CHASE BROS. CO., Rochester, N. Y., now lights its large packing house with acetylene gas.

THE Jewell Nursery Company, Lake City, Minn., is scattering hundreds of salesmen through the northwest.

IRVING ROUSE, of Rochester, N. Y., has received 174 cases, twelve carloads, of European seedlings purchased during G. G. Gleason's recent tour abroad.

THE Congressional appropriation last year for experiment stations was $720,000, and this was supplemented by over $400,000 of state funds.

CONGRESSMAN CHARLES A. BARLOW, who introduced the anti-scale bill at Washington, does not expect his measure to become law at this session of congress.

Indianapolis.

ANNUAL MEETING OF THE STATE FLORISTS' ASSOCIATION.—NO FALL SHOW.—CITY FLORISTS JOIN IN A BODY.—MONTHLY EXHIBITIONS HEREAFTER.—ELECTION OF OFFICERS.—A LEGISLATIVE COMMITTEE.—CERTIFICATES AWARDED.—THOSE PRESENT.—A TRIP TO NEW CASTLE.

The thirteenth annual meeting of the State Florists' Association of Indiana took place here January 9.

As stated by President Carmody the association will discontinue its annual shows, as the same have ceased to be self-sustaining. Mr. Carmody further said that with no show the association would be deprived of its main purpose of existence, but for general reasons it should be maintained and to accomplish this it would be highly desirable to unite the Indianapolis Florists' Club with the association. In behalf of the club Mr. Alley stated that his organization was ready to accept the invitation of the association providing that body would amend its by-laws in accordance with the requirements of a local society, and a committee for that purpose was named.

At the evening session the by-laws, as amended by the committee, were read and approved. It was provided that hereafter instead of an annual meeting, regular monthly meetings shall be held in this city; second, that the executive committee should consist of local men. The Florists' Club, which between the two sessions had held a meeting to act on the proposition of the association, announced its intention to join the same in a body and a motion to that effect was unanimously carried.

This being disposed of, election of officers took place and resulted as follows: President, E. G. Hill, of Richmond; first vice-president, J. Clyde Powers, of Indianapolis; second vice-president, Herbert Hellar of New Castle; secretary, Robert McKeand, of Indianapolis; treasurer, J. T. Huntington, of Indianapolis.

On a motion of R. McKeand the chair appointed the following legislative committee to secure, if possible, a larger appropriation for the advancement of floriculture in the state: J. C. Powers, H. C. Alley, William Langstaff, T. V. Page, Henry Rieman, Fred Hukriede and W. W. Coles.

The exhibition held in connection with the meeting was not quite as large as that of last year, but the flowers were fine. The following certificates were awarded:

To the Bertermann Floral Co. for cyclamen plants; to the South Park Floral Co. for Brides and Bridesmaids; to H. W. Rieman for Meteor roses; to J. Hartje for Farquhar violets; to Hukriede & Son for Marie Louise violets; to the South Park Floral Co. for California violets; to E. G. Hill & Co. for best red carnation, America; to South Park Floral Co. for best pink, Triumph; to South Park Floral Co. for best variegated, Helen Keller; to W. W. Coles for best white, Evelina.

Honorable mention was given Hukriede's azaleas and H. W. Rieman's cyripedium and carnation display.

Those present from the state were: Chas. Hunt, Terre Haute; Fred Dorner, Lafayette; W. Teagle, Richmond; H. Hellar, New Castle; W. W. Coles, Kokomo; J. D. Carmody, Evansville.

At the January meeting of the Indianapolis Florists' Club installation of officers took place. At every regular meeting hereafter a special exhibition of some kind of seasonable cut flowers or plants will take place at which the club will pay cash premiums.

For February the committee in charge announced a carnation exhibit. Premiums will be given for the best dozen flowers of pink, white, red and any other color.

After the meeting Messrs. Powers and Alley agreeable surprised the members by extending an invitation to supper. Everybody had a good time and the evening was one of the most pleasant we have had this winter.

January 5, a party of nine Indianapolis florists followed an invitation of the South Park Floral Co. to New Castle. We were very nicely entertained by the proprietors and can not praise enough the excellent condition of their stock. Roses, especially Beauties, received the greatest admiration, but carnations, and violets were very fine. H. JUNGE.

St. Paul.

Trade is fairly good. A. S. Swanson recently had a large decoration at the Aberdeen hotel for the Noel Club. Green, wild smilax and holly were used largely with splendid effect. L. L. May decorated the Ryan hotel parlors for the reception tendered the incoming Governor Lind. Palms and greens were used.

Fred. Schulze met with a severe loss the night of December 30 by the freezing of his entire stock, owing to insufficient boiler capacity. This falls heavily on him and he has the sympathy of his fellow workers. FELIX.

HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
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ESTABLISHED 1854.

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I HAVE A LARGE STOCK OF
CLEMATIS
2 and 3-year old, extra strong, field-grown plants, finest sorts (with 30 per cent. Jackmanni), Henryi, Batemanni, Duchess of Edinburg, Gypsy Queen, etc. Price, $10.50 per 100, $100.00 per 1000. Ib. Id., without Jackmanni, $8.50 per 100, $80.00 per 1000. Clematis, 1-2 year cultivated, in 5-6 inch pots, 40 per cent Jackmanni, $9.00 per 100, $80.00 per 1000; without Jackmanni, $8.00 and $75.00. References requested from unknown correspondents.
J. GROENEWEGEN,
Boskoop, Holland.

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Flowering Shrubs; full assortment; all sizes.
Half Million...
Deciduous Trees for street, lawn and avenue planting.
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The Popular CAROLINA POPLAR.
Just the tree for city planting—Thrives where others fail—Resists smoke and gas as the salamander does fire. 75,000 of them, beautiful trees 6 to 8, 8 to 10, 10 to 12 and 12 to 15 feet. Immense stock of all other Shade Trees, Shrubs and Roses. Hundreds of thousands of Fruit Trees, Small Fruits, Grape Vines, Plants, Seeds. Valuable Catalogue free. Correspondence solicited. Write us your wants if you would procure the best at bottom prices.
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NEW CARNATION EVANSTON

We are offering Rooted Cuttings of this Grand New Scarlet Carnation, the merits of which can not be doubted, as it is receiving the hearty endorsement from both the Growers and Wholesalers. We have handled the cut of Mr. J. Weiland for past two years, of this as well as other varieties, and have found it always a ready seller and one that was appreciated by buyers in preference to any other scarlet on the market.

CUT FLOWERS.

ROSES.

Am. Beauties, select	per doz.	$4.00 to $6.00
Am. Beauties, medium	"	2.00 to 3.00
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Brides, Maids, Meteors	per 100,	3.00 to 7.00
Kaiserin, La France	"	3.00 to 7.00
Perle	"	3.00 to 5.00
Roses, our selection	"	3.00 to 4.00

CARNATIONS.

Fancy Stock	per 100,	$2.00 to $3.00
Ordinary Stock	"	1.00 to 1.50

MISCELLANEOUS STOCK.

Violets	per 100,	$.75 to $1.00
Valley	"	4.00 to 5.00
Narcissus	"	3.00 to 4.00
Romans	"	2.00 to 4.00
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Harrisii	"	15.00 to 20.00
Bouvardia	"	1.00 to 2.00

Above prices subject to change without notice

Decorative Stock.

Wild Smilax, parlor brand		$3.75
" medium case		5.50
" large case		8.00
Asparagus plumosus	per doz.	$6.00 to 8.00
" " string		.50 to 1.00
Smilax	per doz.	1.50 to 2.00
Adiantum Ferns	per 100,	.75 to 1.00
Common "	per 100,	.15
" "	per 1000,	1.50
Galax Leaves	"	1.00
Farleyense Fronds	per doz.	1.00

We carry a good stock of above always on hand and can fill orders promptly.



Vaughan, McKellar & Winterson,
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The following testimonial from one of our LEADING GROWERS should have a great deal of bearing with growers of Carnations:

MR. JOHN WEILAND, Evanston, Ill. Dear Sir:—In reference to the new Carnation "Evanston" which is being introduced this season, would state that I have grown a bench of this variety for the past year and have been better impressed with it than with any new carnation that has as yet been introduced, for scarlet, and intend the coming season to grow this variety for our leading scarlet, as in my estimation this variety will fill a long felt want in the market; namely, a good scarlet carnation, with good, thrifty habits and a strong producer. The "Evanston" is one that will surely fill these wants, and is one that will find ready sale wherever introduced. I consider it superior in all respects to any of the other twenty leading varieties which I now grow. I heartily endorse it to all carnation growers as a sure money-maker. Yours very truly, PETER REINBERG.

Give us your order now. Rooted Cuttings, $7.00 per 100, $60.00 per 1000. 500 at the thousand rate.

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THE BRITISH HORTICULTURAL ASSOCIATION, Ltd.
of 33a Ludgate Hill, London E. C.
(The largest Auction room in the city of London),
hold sales **DAILY** of BULBS, ROOTS, ETC., from all parts of the World.
Extensive Connection of Regular Buyers.
Good Prices Always Obtained.
Settlements Every Friday.
Registered Offices 29 New Bridge Street,
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The Auction sales held by this Association offer more advantages to Growers and Consignors than those of any other existing English firm.

PALMS. FERNS. FICUS.

Medal awarded on Palms at World's Fair, 1893.

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100,000 strong LATANIA SEEDLINGS and 25,000 FERNS for dishes at $3.00 per 100, $25.00 per 1000.

TERMS, CASH.

ALBERT FUCHS,
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Mention the American Florist.

Fresh From Australia!

	100	1000	5000
Kentia Belmoreana	$.65	$5.00	$22.50
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Also Latania Borbonica	.30	2.50	10.00
	pkt.	oz.	lb.
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Freesia refracta alba "	.10	.20	1.10
Smilax Seed "	.15	.40	3.00
Cyclamen Giganteum "	100 seeds	1000 seeds	
choicest English strain	$.65	$5.00	

Giant Pansy from best German and Scotch growers . . pkt. of 100 seeds, 10c; 1000 seeds, 25c; oz., $2.

These prices *include throughout* cost of Delivery by *express or mail.*

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BEGONIAS AND GLOXINIAS

In any quantity.

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L. B. BRAGUE,
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GERANIUMS.

Fine rooted cuttings, mixed, from soil	$12 per 1000
2½-inch, mixed	20 per 1000
" " S. A. Nutt, La Favorite, etc.	25 per 1000
Mme. Salleroi, 2½-inch	20 per 1000
COLEUS, fine, from soil	1 per 100

Cash please. **CARL HAGENBURGER, W. Mentor, O.**

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

Worthy of St. Louis.

As an achievement worthy of emulation it may be mentioned that Louis F. Ullrich, a Chicagoan, but not in the trade, last week established what is said to be a new world's record at bowling by rolling three games with an average of 223, the best average for three games previously recorded being 216. Mr. Ullrich's best game of the three was 256.

Omaha Bowling Matters.

The bowlers of the Omaha Florists' Club have not held regular practice games for the past two months, but now that the holiday rush is subsiding the interest is reviving and weekly meetings will shortly be held on the alleys. It is thought that Omaha will be able to send a team to Detroit next August which will be able to make a good showing, even with the strong competition which is sure to mark that event.

Trojans Were Winners.

The bowlers of the New York Club met on Monday afternoon, January 9, and adopted by-laws and rules for the management of practice games which will be indulged in weekly throughout the rest of the season. Scores will now be recorded and an effort made to evolve a team that will bring fame to New York next summer at Detroit. Two games were rolled on Monday between sides captained by J. H. Troy and Theodore Roehrs. The Trojans walloped the Roarers in both games.

Good Scores at Detroit.

The convention city bowlers are showing steady and rapid advancement in their work upon the alleys, and if their progress continues until August St. Louis may feel constrained to leave that beautiful silver cup in the city between the lakes. Here is the score rolled last week:

Name.	1st.	2d.	3d.	4th.	Av.
Holznagle	154	156	127	172	152
Ferguson	147	140	139	124	138
Beard	126	122	149	141	135
Watson	123	170	110	129	133
Dunn	124	137	113	140	129
Pickworth	114	139	151	108	128
Coryell	125	108	104	149	122

R. F.

Large Attendance at Championville.

The last regular weekly meeting of the St. Louis Bowling Club was a record breaker. Not only were all the regular members present except one, but several ex-members were there to make things look like old times; one of them, John Young, in one game had a clean sheet until the ninth frame.

Name.	1st.	2d.	3d.	4th.	Av.
D. Finlayson	165	188	161	180	174
Carl Beyer	195	172	142	171	170
R. F. Tesson				155	155
J. Kunz	145	129	181	125	145
John Young	114	132	186		144
F. J. Fillmore	184	144	112	125	141
C. A. Kuehn	115	150	170	125	140
C. C. Sanders	123	135	152		137
J. J. Beneke	104	167	134	141	132
F. C. Weber	108	93	162	167	133

Minneapolis Will Roll.

The Minneapolis florists have organized a bowling club of eleven members. A. S. Swanson is captain and E. Nagel treasurer. The club will meet every Tuesday evening at the alley at Harmonia Hall. All florists of the Twin Cities are cordially invited to join.

Good Bowling at Cleveland.

There was a good attendance at the alleys on Thursday evening, January 5, and some good scores were made. Pentecost won the badges for both high score and best average. James Eadie was second and A. H. Graham third in the contest for each trophy. Following is the complete record of the evening:

Name.	1st.	2d.	3d.	Av.
Pentecost	160	188	145	164
Jas. Eadie	129	182	141	151
A. H. Graham	133	145	166	148
A. Graham	128	136	129	131
J. Wilson	143	121	113	126
Gordon Gray	117	150	98	122
E. H. Cushman	108	116	122	115
Coe & Tilton	132	100	88	107
H. A. Hart	95	65	143	101
P. Hart	83	85	84	84

A.

With Chicago Bowlers.

Following last week's smoker at the rooms of the Chicago Florists' Club the bowling enthusiasts repaired to the Palm Garden Alley, 77 Randolph street, and, after voting to hold the prize medal contests on Friday nights instead of Thursdays as heretofore decided, rolled one game with the following score:

Phil Hauswirth	162
John Degnan	144
Ed. F. Winterson	143
G. L. Grant	132
Chas. Balluf	122
James Hartshorne	114
Alex. Henderson	114
C. W. McKellar	111
Walter Kreitling	110
Henry Roe	103
A. Lange	98
August Balluf	82

Fine Time at Orange.

The New Jersey Floricultural Society had a glorious time on Friday evening, January 6. It was the date of their annual banquet and installation of officers, and they further added to the lustre of the occasion by inviting the New York Gardeners' Society to come over and bowl with them, and then proceeded to thrash the visitors thoroughly. The Orange aggregation, lined up under the leadership of David Rose, comprised Messrs. Von Qualen, Atkins, Gray, Smith and Messman. The New Yorkers were Messrs. O'Mara, Withers, Troy, Bartholomew, Marshall and J. Manda, and Captain O'Mara expressively remarked, when it was all over, that their opponents gave them "what Paddy gave the drum."

Following the bowling came the business meeting and installation of officers, which was conducted in a business-like manner that would serve as a good example for other florists' organizations. Secretary, treasurer and librarian submitted their annual reports and then the retiring president, Malcolm MacRorie, installed the new officers, Messrs. Peter Duff, president; John Hayes, vice-president; Joseph Davis, secretary, and George Smith, treasurer. Adjournment was then made to the banquet hall.

Some good music and a song or two supplemented the material feast and put the participants in best of humor to listen to a series of bright and entertaining remarks by Messrs. P. O'Mara, Wm. McMillan, of Essex County Parks; Dr. Kitchen, J. Bartholomew, W. J. Stewart, J. W. Withers, Geo. Smith, J. H. Troy and Mr. Butterfield, and it was well past midnight before the lights went out.

Bowling at Philadelphia.

The alleys have been comparatively deserted for the past month, the boys having work to do, which, by the way, always interferes with their play. The second team, under the captaincy of John Walker, found time to bowl a series of games with the seconds of the Century Wheelmen, a crack bowling team, almost as good as their first, in fact. In the first match, which was played on their alleys, they broke the record for a single game, making over 1050, and finally won the match by over 250 pins. When they played the return match on the Florists' Club alleys, however, they were defeated by over 300 pins. The rubber was played on a neutral alley and the Centurions won by seventy-seven pins. The Saturday night games are much enjoyed; sides are chosen and, as the losers pay, each man bowls his best. The contest for the honor of representing the club at Detroit still goes on. All games count when four or more members are rolling. The following are the first twelve in the order named and their averages for the months of November and December:

Name.	Av.	Name.	Av.
Brown	153	Moss	141
Westcott	145	Baker	140
Kift	145	Anderson	138
Smith	143	Habermehl	136
Longinotte	142	Walker	135
Connor	142	Craig	126

K.

A Banquet at Poughkeepsie.

The fourth annual dinner of the Dutchess County Horticultural Society took place at Masonic Temple on the evening of January 5. The retiring president, George Saltford, opened the usual after-dinner oratory with a brief resume of the society's history and said that the membership was now 135, the financial condition good and prospects excellent. The last exhibition had come out about even, financially, and he considered that a good showing. He hoped to see an even greater show next year, second to none in the United States. He then introduced C. B. Weathered as toastmaster and the duties of the office were performed by that gentleman in a most acceptable manner.

Among the other speakers were Frank Lowne, who treated the subject of flowers in a very witty way; Mr. Seaman, whose subject was coal, but who pleaded inability to "fire up;" Major Sague, who has just returned from Honolulu, and told of the chances for a few live florists in our new Pacific possessions; Wm. Turner, who recounted some of his experiences on a recent trip to London, and C. Reynolds, who made lots of fun as he told of his love for horticulture and the troubles incident to the same. He was followed by Robt. Hood, who recited an original and most devout poem; W. J. Stewart, who responded for the S. A. F.; Richard Connell, who eulogized Dutchess county in a most eloquent manner, and several other local celebrities, and the pleasant occasion broke up at the very decorous hour of 9:30 p. m. The decorations of the table were very handsome.

Previous to the dinner officers for the ensuing year were elected as follows: President, F. W. Newbold; vice-president, James Blair; secretary, W. G. Gommersall; treasurer, C. S. Mitchell.

Benthey & Co.

WHOLESALE CUT FLOWERS.



41 Randolph Street, - - CHICAGO.



AS a firm we are young yet, but we are healthy and we are growing. We are receiving daily a large and complete stock of Choice Flowers. We get the stock because the growers have confidence in our ability to handle it to best advantage. We sell the stock because we give the buyer what he wants at the right price, because we are prompt and careful in filling orders, and last, but not least, because we are able to gauge the wants of the retail trade more intelligently for the reason of a life-long experience in the business in ALL its branches. Give the new house a trial and convince yourself.

We have room to handle the product of a few more growers, particularly American Beauties and other Choice Roses, Fancy Carnations, etc. We respectfully solicit consignments of same.

Our Terms are the usual 15 per cent. Weekly statement with check for amount promptly mailed on Tuesdays.

St. Louis.

FUNERAL WORK MAKES TRADE GOOD.—STOCK NOT PLENTIFUL AND PRICES RATHER HIGH.—HEAVY VIOLET CROP EXPECTED.—LILY OF THE VALLEY IN.

Trade during the past week has been fair, but those who have not had a share in the funeral work have found things a trifle slow. Stock has not been overplentiful and pretty stiff prices have been asked for what has come into the market. Carnations are coming in much more freely and promise with favorable weather, to be exceedingly plentiful. Roses have been cleaned up every day. California violets have dropped to 50 cents per hundred and it only needs bright weather to precipitate a deluge. Some very fine double violets are offered but it is a hard matter to educate the public up to appreciate the difference between single and double to pay the difference in price that is asked; when a person takes the double you can be sure they are from the east. New crop lily of the valley is in with several of the home growers and will do away with the necessity of sending to Cincinnati or Chicago whenever an order for it is received.

R. F. T.

Omaha.

THE HOLIDAY SEASON WAS BETTER THAN EVER BEFORE.—JOTTINGS OF THE GROWERS AND DEALERS.—A NEW STORE.

Holiday trade was better than ever before. Roses and carnations were somewhat scarce, but better in quality than those of other years. Roses brought $2.50 to $3 per dozen. Carnations sold at an average of 75 cents per dozen, American Beauties 50 cents to $1 each, violets $3 for 100, narcissus 75 cents to $1 per dozen and hyacinths 75 cents per dozen. Potted plants were as much in demand as cut flowers, especially such as azaleas, cinerarias, primroses and cyclamens as well as palms. It seems as if there was a decrease in the sale of evergreen, but an increase in holly.

J. F. Wilcox, of Council Bluffs, sends in some elegant roses, such as Meteors, Brides and Bridesmaids grown to perfection. His carnations are not far behind his roses. C. H. Frey, of Lincoln, sends in some of his carnations and they are first-class and command a good price. Nicol & Green, of Fremont, Neb., send in some fine double violets, in fact as good as can be grown. W. J. Hesser, of Plattsmouth, Neb., the palm grower, brought in some nice stock, which found eager purchasers at Christmas.

Hess & Swoboda's store was well stocked with poinsettias, palms, azaleas, cinerarias, primroses, cyclamens and potted violets which made a pleasing display. Louis Henderson's late chrysanthemums came in handy and sold very well. S. B. Stewart's window was beautifully arranged with ferneries interspersed with cut flowers.

Paul B. Flath's carnations were well cropped and brought him a nice sum of money for Christmas.

Karr & Davidson have moved their business from Douglas to Sixteenth streets.

A. Delaney has opened a store on Twenty-fourth street in South Omaha and reports good business. B. Haas, the pioneer florist, has remodeled his place. It looks neater than ever and he reports good business.

R. Mohr, of St. Louis, Mo., visiting his parents during the holidays, proved a good assistant to Hess & Swoboda during the rush.

GRIPPE.

I have still a very Fine Line of SPECIMEN PLANTS of

The BOSTON FERN.....



for 8 and 10-inch pots at 50 cts., 75 cts. and $1.00 each, spread of 4 to 6 feet, and smaller at 20 cts. and 25 cts. each.

One of the best sellers at Christmas of any plant. Stock up now for later sales and Easter.

..ABOUT 1000 SPLENDID..

Rubbers

From 5-in. pots, 18 in. from top of pot, at 40 cts. each; 6-in., 24 to 30 in. from top of pot, at 50 cts. and 75 cts.

L. H. FOSTER,
45 King St.,
DORCHESTER, MASS.

When writing mention American Florist.

... ANNOUNCEMENT! ...

WE BEG TO ANNOUNCE to our patrons and friends that we have formed a partnership, to be known as

BOBBINK & ATKINS,
(RUTHERFORD, N. J.)

for the carrying on of a general wholesale business in SEEDS, BULBS, PLANTS and NURSERY STOCK, especially representing European houses, including The Horticultural Company, Boskoop, Holland; Rudolph Van Til & Co., Hillegom, Holland; Jules Gauchault, Orleans, France; Victor Lemoine, Nancy, France; Snoek Bros., Gendbrugge, Belgium.

L. C. BOBBINK. F. L. ATKINS.

ASPARAGUS

50,000 plants in 2½-inch pots, $5.00 per 100, Xpress; 24 for $1.50 by mail.
Specimens for 8-inch pots, $6 per 12.

A. BLANC & CO.
PHILADELPHIA.

SPRENGERI.

CHOICE SEEDS!

VERBENA GRANDIFLORA.
The finest strain of Giant Verbenas yet produced, largest flowers and best colors. Be sure to sow. Per pkt 500 seeds, mixed colors, 50 cts.

CYCLAMEN GIGANTEUM.
The choicest giant flowering varieties in best mixture. Pkt., 200 seeds, $1.00; half pkt., 50 cts.

PETUNIA DOUBLE FRINGED.
The largest and finest to be had. Trade pkt., 50 cts.

CHINESE PRIMROSE.
Best single and double, 400 seeds, $1.00.
Seeds of Choice Novelties added to every order.

JOHN F. RUPP, Shiremanstown, Pa.

SPECIAL OFFER!

Cyclamen Persicum Splendens (giganteum), from flats twice transplanted, in four true colors, $3 per 100, $25 per 1000, express prepaid. Chinese Primroses, seedlings from flats, $1 50 per 100; from 3-inch pots $4 per 100; from 4-inch pots in bud and bloom $5 per 100. Cyclamens from 3-in. pots, $8 per 100; from 4-in. pots in bud $12 00 per 100. 10,000 Geraniums, Dbl. Grant, S. A. Nutt, La Favorite, Gloire de France, etc., our selection from 2-in. pots $2 per 100 express prepaid. SATISFACTION GUARANTEED.

MADER & STEMPLE CO. Ltd., E. Stroudsburg, Pa.

PALM Seed. FRESH ON HAND

	100	1000	3000
Kentia Belmoreana.....	$1.00	$6.50	$15.00

J. L. SCHILLER,
404 East 34th Street, NEW YORK CITY

Rose Hill Nurseries,

OUR SPECIALTY: Headquarters

Areca Lutescens, Kentia Belmoreana, Cocos Weddeliana, Kentia Forsteriana, Livistona rotundifolia, Phœnix rupicola, Phœnix reclinata, Araucaria excelsa, Pandanus, Ferns. The largest stock of Kentias in America.

SIEBRECHT & SON, New Rochelle, N. Y.

READY NEXT WEEK!

FULLY REVISED TO DATE

The American Florist Company's

DIRECTORY FOR 1899

OF

Florists, Nurserymen AND Seedsmen

OF THE

UNITED STATES AND CANADA, ARRANGED BOTH BY STATES AND POST OFFICES AND ALL NAMES

Alphabetically

WITH NEARLY

1500 NEW NAMES

PRICE: TWO DOLLARS.
IN FLEXIBLE LEATHER BINDING, THREE DOLLARS.
Orders for Copies executed in strict rotation as received.

American Florist Company,

324 DEARBORN STREET,
CHICAGO, ILL., U. S. A.

Helpful Reminders.

A careful reading of recent reports in the AMERICAN FLORIST shows clearly that a greater variety of flowers and plants is what the public will most appreciate. Make a survey of your place and note all the odds and ends that can be repotted and brought into shape by Easter. I will mention a few plants not usually employed for this purpose but admirably adapted to it. Mahernia odorata cuttings made at once come in for next season and old pots of it bloom during spring and sell like "hot cakes." Abutilon Eclipse makes beautiful hanging pots and one of the showiest and prettiest plants ever grown is Lopezia rosea.

Begonias of almost all varieties are good. Strong clematis will sell at Easter if in bloom; trained over stakes carefully it is beautiful and will pay better than azaleas. Nice plants of passion vine in bloom are charming. Well grown heliotrope is most desirable yet very scarce. The improved salpiglossis from seed is beautiful and good pot grown antirrhinums are more varied in coloring and longer in bloom than azaleas; you can flower them in the garden and select the choice ones to establish in pots for spring sales.

The calceolaria is not half grown yet, and the geranium as a specimen plant is slighted. The Chicago Horticultural Society's show gave some idea of what this plant is equal to and the beautiful colors that are now being disseminated make it comparatively easy for greenhouse men to arrange a gorgeous display for any time of the year. Most of these things are found pot bound and weedy in the neglected corners of small greenhouses, unappreciated because the "big guns," of New York and Philadelphia are not making a hit with them. Do not be afraid of showing some originality and ingenuity. Clean up your place this month and see how many neglected pots you can make beautiful by April 1.

C. B. W.

IMP.

Grow!

FLOWERS and plants grow vigorously & quickly and luxuriantly with that easy-to-use, safe, economical fertilizer—

The Imperial Liquid Plant Food.

It furnishes ideal nourishment from the very *start*. Absolutely convincing testimonials about the "Imp," booklets and prices for a postal to

EASTERN CHEMICAL CO., MFRS.,
620 Atlantic Avenue, Boston, Mass.

SPECIALTIES IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.
Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N.Y.

CARNATIONS

Healthy Rooted Cuttings Now Ready.

Flora Hill, Alba Superba, Mayor Pingree, Jubilee, Hector, Victor, Daybreak, Triumph Wm. Scott, Armazindy, Minnie Cook.

Write for prices.

PENNROCK CO., Box 252. Wilmington, Del.

10.000 STRONG, WELL ROOTED

Geranium Cuttings.

Grown in soil, in best commercial kinds, in dark red, scarlet, pink and white, at $1.25 per 100, $10.00 per 1000. My selection at $1.00 per 100, $8.00 per 1000. Cash with order please.

H. BOOK, 1052 Main St., Worcester, Mass.

ROOTED CUTTINGS.

VERBENAS, PETUNIAS, and other stock.

Florists can save money by sending for my price list of Rooted Cuttings before placing their orders elsewhere. Fine stock. Express prepaid.

S. W. PIKE, St. Charles, Ill.

BEGONIAS.

	Per 100	Per 100
Argentea guttata	2-inch, $2.00;	3½-inch, $4.00
Feastii, Speculata	2-inch, 2 50;	
Rubra	2-inch, 3.00;	
Bertha Chatteaurocher, Robusta		3½-inch, 4 00
De Lesseps, Pres. Carnot		3½-inch, 4.00
Roses—La France ... $3.00 per 100; Meteor		2.50
White, Pink and Yellow Rambler		3½-inch 4 00
Full standard list. 2½ in., 3½ in and 4 in.		

THE NATIONAL PLANT CO., Dayton. O.

It Will Pay You

To correspond with me regarding Carnation Cuttings. I can supply all the standards and novelties at the lowest market price. Also Asparagus Plumosus Nanus, strong 2-inch stock ready for a shift, $1.00 per 100; $35.00 per 1000.

Address S. S. SKIDELSKY,
1653 N. 7th St., PHILADELPHIA.

50,000 ROOTED CARNATIONS.

Cuttings of the following varieties now ready, no rust, healthy stock.

Daybreak.	Scott, pink.
Meteor, dark red.	Rose Queen, pink.
Hector.	Lizzie McGowan, white.
Helen Keller.	Alaska. white.
Minnie Cook	Storm King, white.
Eldorado.	Jahns Bros'. Red.
	Fellow Red.

$1.50 per 100. $15 00 per 1000.

Add stamps for mail orders. Orders must be accompanied with cash

D. A. CASEY,
31 Ashley St., Bridgeport, Conn.

CARNATIONS

Rooted Cuttings of New and Standard sorts. Send for price list.

WM. SWAYNE, - Kennett Square, Pa.
BOX 226

Our Trade List January, 1899

CARNATION CUTTINGS Now Ready.

	Per 100
Rebacca, seedling by Dorner, fancy bloom, large as Mayor Pingree, stem as strong, bloom is yellowest brown, flaked light pink, bright	$5.00
Argyle, fine dark pink	4.00
Tidal Wave, discarded for Argyle.	
Empress, large dark red	4.00
Evelina, best paying white	3.00
Mayor Pingree, big cream	1.50
Gold Nugget, best yellow	6.00
Painted Lady, painted	3.00
Psyche, variegated	3.00
Mary Wood, she's all right	2.00
Mrs. Bradt, a dandy	3.00
Sport from Mrs. Bradt, the coming scarlet single rooted cutting, each, 25c.	
Flora Hill, the big white	1.50
Daybreak, shell pink	1.50
Triumph, the big pink	1.50
Wm. Scott, discarded for Triumph.	
Jubilee, scarlet	1.50

Above carnations are all strong, healthy rooted cuttings. Estimate given on 1,000 to 50,000 lots.

POT PLANTS,

2¼-in., Rooted in September, 1898.

	Per 100
New Coleus Brownii, a fine bedder	$5.00
Velvet Plant, a big seller	3.00
Geranium, Dekoo Milling, seedling, a cross between Cloth of Gold and S. A. Nutt; it has the yellow leaf of Cloth of Gold and the double bloom of S. A. Nutt; each	$5.00.
Geranium Mme. Salleroi	2.00
" Ivy mixed	2 00
" Up to date, our selection	2.00
" Fancy leaved "	3.00
" Double white, every variety you want	2.00
Feverfew Little Gem	2.00
Southern Thyme	2.00
Iresine, in two colors, red and yellow, makes the best Canna border	2.00
Salvias Clara Bedman, Le President and Vernon	2.00
Abutilons Souv. de Bonn and Triomphe de Levii	2.00
Smilax	1.00
Petunias, seven of Dreer's best	2.00
Heliotropes White Lady, Czar and Albert Dix	2.00
Coleus, up to date varieties	2.00
Begonias " "	2.00
Mesembryanthemum Erectum	5.00
'Mums, Florence Pullman, Modesto, Mme. Desgrange, Vernel's Beauty and Mrs. R. McArthur	2.00

Five plants at 100 rates. Spot cash.

THE MORRIS FLORAL CO., MORRIS, ILL.

Mammoth Fordhook Verbena

New Giant Flowering Mixture. Very large flowers and finest colors Large trade pkt. 25c; oz. $1.50.

CASH WITH ORDER

FRED. W. HEINZ, Seedsman. Sharon, Pa.

ELECTROS

For Catalogue Purposes.

WE have a large assortment of strictly high-class halftones of which we can supply electros suitable for catalogue illustration. If you need anything in this way, state your requirements and we will submit proofs of the illustrations in stock. Our collection includes the leading

ANNUALS
BIENNIALS
HARDY PERENNIALS
POT PLANTS
FLORISTS' FLOWERS
TREES AND SHRUBS
Also PARK AND GARDEN SCENERY.

PRICE FOR CASH ONLY 15 CENTS PER SQUARE INCH.

THE AMERICAN FLORIST CO.
.....324 Dearborn Street, CHICAGO, ILL.

Bassett & Washburn's
ROOTED CUTTINGS
OF
ROSES AND CARNATIONS

Are as Good as can be Grown and Free from any Disease.

WE GUARANTEE WHAT WE SAY.
ORDERS FILLED IN ROTATION.

ROSES.

	100	1000
Meteor	$1.50	$12 50
Bridesmaid	1.50	12 50
Bride	1.50	12.50
Perle	2.00	17.50.
Kaiserin	2.00	17.50

We shall have a Nice Lot of **PLANTS** Later. Place Your Orders Early if You Wish the Best.

CARNATIONS.

PINK.	100	1000
TRIUMPH	$1.50	$12.50
WM. SCOTT	1.00	7.50
PAINTED LADY	4 00	35.00
DAYBREAK	1.50	12.50
ARGYLE	4.00	35.00
MRS. FRANCES JOOST	5.00	50.00
McBURNEY	1.50	12.50
RED.		
DAZZLE	$4.00	$35.00
JUBILEE	2.00	17.50
PORTIA	1.00	7.50
BON TON	4.00	35.00
MAROON.		
EMPRESS	$4.00	$35.00

WHITE.	100	1000
FLORA HILL	$1.50	$12.50
MARY WOOD	5.00	40.00

The largest and best white Carnation that is grown. Has a strong, stiff stem, and a constant bloomer. Sell in the market to-day for nearly double any other white Carnation we handle.

EVELINA	4.00	35.00
WHITE CLOUD	4.00	35.00
VARIEGATED—White and Red.		
MRS. GEO. BRADT	$5.00	$40.00
PSYCHE	4.00	35.00
ARMAZINDY	2.00	17.50
YELLOW.		
MAYOR PINGREE	2.00	17.50
GOLD NUGGET	6 00	50.00

GREENHOUSES AND RESIDENCE, HINSDALE, ILL.
Long Distance 'Phone No. 10.

BASSETT & WASHBURN,

STORE, 88 Wabash Avenue, CHICAGO, ILL.
Long Distance 'Phone Main 223.

NEW CARNATION

Gov. Griggs

SEEDLING OF VAN LEEUWEN ON DAYBREAK.

Strong, healthy grower, free from disease of all kinds, continuous free bloomer with flowers very erect on a stiff stem, 18 to 20 in.; flowers similar in color to DAYBREAK, but much brighter, edge beautifully fimbriated, good shape and with full center, and does not burst; commands the highest prices in New York for novelties. Having been grown by us for the past 4 years we can with confidence recommend it to the florists of America as one of the best if not the best light pink carnation ever sent out. Orders are now being booked for rooted cuttings to be delivered February 1 1899. Price,$75.00 per 1000; 500 at 1000 rates; $10.00 per 100; $1.50 per dozen. All orders filled strictly in rotation.

Cash with order from unknown correspondents. A personal inspection invited.

JOSEPH TOWELL, Paterson, N. J.
Haledon Ave. Nursery.

It is time you were thinking about

CARNATION STOCK

for next season. It pays to buy only the best. Will have them in large quantities, of all the leading commercial varieties. Ready Jan. 1st and later. Write me for prices.

Address CHAS. CHADWICK,
Lock Box 11, Grand Rapids, Mich.

Our Specialty!

ROOTED CUTTINGS of NEW VARIETIES of **CARNATIONS**

Special prices to those who issue lists or who buy to sell again. Let us know what you are likely to need and get prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

ROOTED CUTTINGS ROSES AND CARNATIONS!!

We offer well-rooted cuttings of the following Roses and Carnations, all in fine condition. Place orders early.

ROSES.

	Per 100	Per 1000
Meteor	$1.50	$12.50
Bridesmaid	1.50	12.50
Bride	1.50	12.50

ROSES.

	Per 100	Per 1000
La France	$1.50	$12.50
Perle	1.50	12.50
Kaiserin	2.00	17.50

CARNATIONS.

	Per 100	Per 1000
Wm. Scott	$1.00	$7.50
Nancy Hanks	1.00	7.50
McCowan	1.00	7.50
Tidal Wave	1.00	7.50
Kohinoor	1.00	7.50
Portia	1.00	7.50

CARNATIONS.

	Per 100	Per 1000
Flora Hill	$1.50	$12.50
Jubilee	1.50	12.50
Mayor Pingree	1.50	12.50
Alaska	1.50	12.50
Nivea	1.50	12.50
Daybreak	1.50	12.50

CARNATIONS.

	Per 100	Per 1000
Armazindy	$1.50	$12.50
McBurney	1.50	12.50
Triumph	2.00	17.50
Argyle	4.00	35.00
Painted Lady	4.00	35.00
White Cloud	4.00	35.00
Evelina	4.00	35.00

REINBERG BROS., 51 Wabash Ave., Chicago.
Please Mention American Florist.

HERR'S CARNATIONS.

YOU RUN NO RISK.

ALL Carnation Cuttings are sent out with the privilege of returning them at my expense if they are not found satisfactory on receipt, and your money returned you in full. I have from one to five thousand stock plants of each of the leading varieties, and offer cuttings at very reasonable prices.

Nine Good Novelties!

Twenty-Five Standard Sorts!

Send your list before you place your orders.....

ALBERT M. HERR, Lancaster, Pa.

CARNATIONS

H. WEBER & SONS,
Oakland, - Md.
Mention American Florist.

CARNATIONS

F. DORNER & SONS CO.,
La Fayette, Ind.
Please Mention The American Florist.

Boston.

BUSINESS FAIRLY SATISFACTORY.—WHITE FLOWERS IN DEMAND.—VIOLETS DRAGGING BADLY.—A FINE JANUARY EXHIBITION.—MEETING OF HORTICULTURAL SOCIETY.—DEATH OF CHARLES BRACKETT.—MINOR NOTES.

Trade remains as last week, fairly active and satisfactory. White flowers have held up especially good, owing probably to the large call for funeral purposes at this trying season of the year. Bride has caught up well with Bridesmaid and white and Daybreak carnations have outdistanced Scott and the deeper pinks. Violets are the only thing with a grievance. They are abundant and demand is unaccountably light and it is difficult to find a market for them at half normal price for the season. Tulips, freesias and daffodils are seen occasionally already but are not sufficiently plentiful to be entitled to a place on the market quotations as yet. Roses of all kinds seem to be off crop and are in shorter supply than for some weeks past and there is no surplus worth noting.

The January exhibition of the Massachusetts Horticultural Society was a good one. Primula Sinensis was shown in fine form by a number of exhibitors. Mrs. B. P. Cheney won first and second prizes for the plants and W. E. Coburn and Mrs. J. L. Gardner were first and second respectively on cut blooms. Mrs. Gardner also showed Primula obconica and Mrs. Cheney Primula stellata. Among the other attractions were Begonia Gloire de Lorraine from Mrs. Gardner, Cattleya speciosissima from E. J. Mitton. Cypripedium exul from J. E. Rothwell, Cypripedium Mme. Georges Truffaut and Cattleya Chocoensis alba from Oakes Ames and fine freesias from Mrs. E. M. Gill and W. N. Craig.

The meeting of the Horticultural Society was held on January 7. Appropriations amounting to $8100 were made for prizes to be awarded in 1899. President Appleton made a notable address reviewing the society's seventy years of usefulness and referring to the present and future needs which must be provided for if the standard of efficiency is to be maintained.

Mr. Charles H. Brackett, who has been a member of the Massachusetts Horticultural Society for forty-eight years and chairman of its vegetable committee for thirty-two years, died on January 4 after a very brief illness, aged 72 years. Mr. Brackett was a man beloved by every one who knew him. Among his associates on various committees at Horticultural Hall he was most popular. His disposition was even and always sunny and everybody was his friend. He will be painfully missed.

W. W. Rawson & Co. have secured the contract for supplying the Boston and Maine R. R. with plants for the station gardens for the next season.

J. T. Butterworth was surprised one evening recently by a party of his friends who presented him with a fine roll-top desk.

Edmund M. Wood has been a victim of the prevailing epidemic for several days.

Visitor in town: L. C. Bobbink, Rutherford, N. J.

BOONEVILLE, MISS.—E. E. Street reports that stock was short for the holidays and that prices rose twenty-five per cent. Chrysanthemums were nearly gone but in demand. There was a great increase in the call for violets.

Grafted Roses...

MAKE MONEY BY STARTING RIGHT

Grafted Roses will produce from 25 to 50 per cent more extra and first grade blooms than own root Roses. To accomplish this, however, you have to start right with gilt edged Rose Scions, properly grafted on the best Manetti stock. Before placing your order for Grafted Roses we would invite an inspection of our Roses at Sharon Hill. We use the best selected Manetti Stock from Messrs. Alexander Dickson & Sons, of Belfast—our grafting is done by men of experience and the wood of the different varieties of Roses is selected personally from exceptionally well grown and well ripened Rose Plants. The varieties are **AUGUSTA VICTORIA, BRIDE, BRIDESMAID, SOUV. DU PRESIDENT CARNOT, MRS. PIERPONT MORGAN & MME. HOSTE.** To secure our best stock **order at once,** *as we fill in rotation and March is the last grafting month.*

PRICES—From 2½-inch pots, $10 per 100; $90 per 1000. We guarantee our plants to be as represented, and at these low prices you can more than pay for the plants on the first cut of flowers.

ROBERT SCOTT & SON, - - - Sharon Hill, Del. Co., Pa.

Please Mention American Florist.

Save Money

By doing your own GRAFTING.

MANETTI STOCKS, FINEST QUALITY. | **Specially prepared for grafting Roses for forcing under glass. PRICE, $12.50 per 1000.**

ROB'T CRAIG & SON, 49th and Market Sts., PHILADELPHIA, PA.

Rooted CARNATION Cuttings

We have a fine lot of clean and well rooted Carnation Cuttings to offer; will be thoroughly rooted when sent out.

	Per 100	Per 1000
ARGYLE	$4.00	$35.00
MRS. GEO. M. BRADT	4.00	35.00
SCOTT	1.00	7.50
McGOWAN	$1.00	$7.50
TIDAL WAVE	1.00	7.50
DAYBREAK	1.00	7.50

Also will have **ROOTED ROSE CUTTINGS** of the leading varieties, including American Beauty in quantity, ready Feb. 10. Can guarantee they will give the satisfaction they did last year. Our best attention will be given to the filling and packing of orders.

J. A. BUDLONG, Wholesale Florist,

CITY STORE, 37 and 39 Randolph St., CHICAGO.

RAMBLER ROSES.

Now is the time to order

CRIMSON, PINK, WHITE and YELLOW RAMBLERS to pot up for Easter sales.

3-year dormant plants, dozen, $3.00; per 100, $20.00

CHICAGO. **VAUGHAN'S SEED STORE,** NEW YORK.

GREENHOUSES, Western Springs, Ill.

CARNATIONS.

White Cloud, Firefly, Evelina, Gold Nugget	$5.00 per 100,	$40.00 per 1000	
Mrs. Bradt	3.00	" 25.00	"
Freedom	2.00	" 15.00	"
Jubilee, Flora Hill	1.75	" 15.00	"
Morello, Daybreak	1.25	" 10.00	"
Wm. Scott, Emily Pierson, Silver Spray	1.00	" 7.50	"

Our stock is A1 and we guarantee satisfaction or money refunded.

THE STOVER FLORAL CO.,

Grandville, Mich.

Crimson Rambler

DORMANT FIELD GROWN PLANTS

We have a few thousand extra heavy plants of **Crimson** and **Yellow Rambler,** cut back ready for potting in 10-inch pots for Easter blooming. This is A1 stock, the finest we have ever had.

$20 per 100, Lighter Grade, **$15 per 100.**

THE DINGEE & CONARD CO., West Grove, Pa.

FIRST TWO INCH POTS OF

Woottons, Perles, Brides, La France and Meteors

Ready for shipment Feb. 1st. Orders filled in rotation. Rooted Cuttings of all roses ready Jan. 5th to 10th. Fancy Carnation Cuttings ready Jan. 25th. Write, **GEO. A. KUHL**

Pekin, Ill.

Long Dis. Phone, 14. Wholesale Cut Flowers.

CARNATIONS.

Rooted cuttings of the following varieties are now ready.

	Per 100	Per 1000
Gold Nugget, yellow	$6.00	$50.00
Mrs. Geo. M. Bradt, variegated	5.00	40.00
Mrs. Jas. Dean, light pink	6.00	50.00
Argyle, dark pink	5.00	40.00
Mrs. Frances Joost, pink	5.00	40.00
Flora Hill, white	3.00	20.00
Evelina, white	4.00	30.00
New York, dark pink	5.00	40.00
Bon Ton, scarlet	6.00	50.00
Jno. Young, white	5.00	40.00
Jubilee, scarlet	3.00	25.00
Victor, pink	3.00	20.00
Armazindy, variegated	3.00	20.00
Daybreak, light pink	2.50	20.00

Highest quality of cuttings well rooted.

CHICAGO CARNATION CO.,

Catalogue ready Feb. 1st. Greenhouses and address JOLIET, ILL.

CARNATION SEED.

Hand fertilized by crossing finest named winter blooming varieties.....

100 Seeds for 25 cts.

Former price $1.00. Cash with order.

AMERICAN ROSE CO.,

WASHINGTON, D. C.



Verbena King

SAYS:

He's going to sell his fine Mammoth Verbenas, all well rooted, and true to name, until Jan. 25th, so get your orders in early, boys, as this is a SPECIAL, @ 60c per 100. $4.00 per 1000 — yes, and free from all diseases, and we guarantee satisfaction and safe arrival in every way to all parts of U. S. and Canada. Some people buy any old Verbena seed and then adv. them as New Mammoth. Don't be deceived in buying such, as anyone should know better.

TESTIMONIAL.

C HUMFELD: Bala, Pa. Dec 27, '98.
Dear Sir.—We told you last year when we sent you our order for 5,000 Verbenas that we would be your customer this year if the Verbenas gave satisfaction. We must say they did. Enclosed please find $20 for 5000 more. Yours truly, DENNISON BROS.

HELIOTROPES, 10 named vars., 80c per 100, $6 per 1000. **AGERATUM** Cope's Pet, blue, and Lady Isabel, white, 50c per 100, $4 per 1000. **COLEUS,** 40 best named vars., 70c per 100, $6 per 1000. **FUCHSIAS,** named vars., $1.25 per 100. **CARNATIONS,** Wm. Scott and McGowan, $1 per 100, $9 per 1000.

Remember, we prepay mail and express charges on all rooted cuttings. ☞That cash please.

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THE ROOTED CUTTING SPECIALIST,
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The finest winter-blooming plant in cultivation. In bloom half the year. We offer stock plants as follows.....

Plants from 2½-in pots, 25c. each; $2.50 per doz., $20 per 100.

Plants from 4-in. pots, 50c. each; $5 per doz., $40 per 100.

By mail, 10c each extra.

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25 grand varieties guaranteed satisfactory in every respect. Strong rooted cuttings, 60c per 100, $4 per 1000. Fine pot plants, full of cuttings, $2 per 100. Cash with order. EXPRESS PREPAID to all parts U. S. and Canada. Send for descriptive circular.

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Verbena, Lantana, Heliotrope, Ceranium and Chrysanthemum plants in varieties. Also **Lemon Verbena, Helianthus Multiflorus,** Etc., strong plants from 2½ in., $2 per 100.
Nymphaea Odorata Gigantea, large roots, $3 50 per 100.
Caladium Esculentum, first size, $2 per 100.
Canna Roots, good varieties, $2 per 100.
500 Dwarf Orange Plants (Citrus Sinensis), large bushy heads, from 4 to 5-in. pots, $20 per 100.
Lettuce and other vegetable plants in any quantity
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Good Smell Plants from cold frames or greenhouse only, at $4.00 per 1000. All others not accessible at present.

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THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20 per 1000. Rooted Cuttings, 75c per 100; $6.00 per 1000; $50 per 10000

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We are the Largest Growers of Verbenas in the country.
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Rex Begonias.

10 KINDS.

3 and 4-inch pots.....50c per doz., $4.00 per 100

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Fine plants from 4-inch pots.....$1.50 per doz.

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5-inch pots.....$1.00 per doz.

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CRAWFORDSVILLE, IND.

Geraniums

Well-rooted cuttings, best varieties, mixed, $1.00 per 100; $9.00 per 1000.

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VERBENAS, nice plants, fine colors 2-in pots	$ 1.00 per 100
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75 varieties of best roses.

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Cash must accompany all orders.

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Choice transplan'ed

Cyclamen Seedlings,

DREER'S STRAIN.

2-5 leaves.....$3.00 per 100.

GERANIUM "MARS", 2½-inch pots, 75c. per dozen, $5.00 per hundred.

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The finest in trade, 1 inch and more.
Double, $3 per 100, $22 per 1,000, $200 per 10,000.
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Gloxinia; 1st class choice, $1.25 per 100 $12.00 per 1,000. Cash with order or good references.

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THE JENNINGS STRAIN PANSIES. SEED. PLANTS.

Finest mixed. Good little plants for cold frames, $4.00 per 1000, express.
Seed, $1.00 per pkg, $5 00 per ounce.

E. B. JENNINGS, L. B. 254, **Southport, Conn.**
Grower of the Finest Pansies.

New Sensational Geranium

"KENTUCKY BELLE."

This grand new variety is the finest of many seedlings we have introduced for many years, being on the style of Souv. de Mirande, which has been one of the best sellers in many years. The color is intensely brilliant and entirely different from any Geranium in existence. A free bloomer, stands the sun well, of a dwarf habit; should be in every collection.

Strong plants, 2½-in. pots, **$3.50 per dozen, $25.00 per 100.** Address

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FREE to ALL.

Our Illustrated Catalogue of ROSES, PLANTS, SEEDS, BULBS and ROOTS, GRAPEVINES, SHRUBS, ETC., will be mailed FREE to all applicants. It will pay to examine it. 60 greenhouses. Goods guaranteed to be first-quality Established 1850.

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Louisville, Ky.



Are you going to carry a list of **DAHLIAS** in your '99 catalogue? If so it will pay you to correspond with me. I prepare lists and arrange the Dahlia pages for florists and seedsmen free. Write for prices, etc.

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Adiantum Farleyense.

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In 5-inch pots, at $9.00 per dozen.

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CAPE JESSAMINE.
GARDENIA FORTUNEI.

Bloom half again larger than G. Florida. Northern florists retailing at 75c to $1.00 each. Stocky plants.
18 to 24 inch.....per 10, $1.00; per 100, $7.50.
2½ to 4 feet " $1.25; " $9.00.

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Chrysanthemums.

We are Headquarters for all '99 Novelties. Also complete list of best commercial varieties.

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CANNAS.

We have a large stock of such varieties as **Duke of Marlborough, Alsace, Gloriosa, Maiden's Blush, Rosemawr, Queen Charlotte, Italia, Austria.** Write for prices.

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(ROSE GROWERS.) WEST GROVE, PA.

Say: "Saw it in the FLORIST."

Toronto.

TRADE WAS VERY GOOD AT THE HOLIDAYS AND NO ONE MAKES COMPLAINT.—NEW OFFICERS FOR THE FLORISTS' AND GARDENERS' SOCIETY.—A SWEET PEA NOTE.

The general trade in Toronto for the holidays was much better than usual. John H. Dunlop reports that his sales at Christmas were three times as great as anything in his previous business experience. This was partly because of a larger demand and partly because he had provided a large stock of flowering plants which were eagerly taken by his customers. All the growers and dealers express themselves as satisfied with the holiday season, and it may be said that the trade was fully fifty per cent greater than last year. There was a much larger supply of stock than is usual at the season and qualities were better than ordinary. There was a particularly increased call for carnations and American Beauties. Roses were very plentiful, and were made to take the place of good blooming plants, of which the general supply was not as large as usual. Some fine cyclamens have found ready sale at good figures.

The Toronto Florists' and Gardeners' Society has elected the following officers: President, George Vair; vice-president, William Jay; second vice-president, W. J. Lawrence; treasurer, George Mills; secretary, D. Robertson; assistant secretary, E. Collins; executive committee, L. Chambers, William Houston, J. Graham, William Muston, J. H. Dunlop, Ed. Grainger and Thomas Manton. President Vair was chosen by acclamation and Messrs. Mills and Collins were re-elected.

Edwin Utley, sweet pea specialist and expert accountant, has been given charge of the books in the liquidation of the Farmers' Loan and Savings Company, which has assets of $600,000. Mr. Utley expects to have large grounds just outside the city for growing sweet peas this spring, and has planned to go more extensively into the business than ever before.

S. P.

Providence R. I.

The inauguration of the city government furnished employment for most of the florists here on the first of the year. The display was very fine and about every dealer was represented. Among the most noticeable designs was a five-pointed star some five feet high, made by M. Sweeney. W. D. Pierce, Jr., made two large horse shoes of carnations and roses. In the center of each was a rabbits' foot suspended with a delicate shade of satin ribbon with inscription. J. B. Canning displayed excellent taste in the arrangement of a pair of scales on a base of roses, carnations, etc. Two balls of Scott on the balance and the word "Unanimous" on the beam. A most unique design made by T. O'Connor was a globe of cranberries mounted on a base of cranberry vines. He also made a number of very elegant haskets of roses. A large horse shoe resting on a base of roses with inscription "Happy—1899—Year" was made by Wm. E. Chappell. Several large pieces from Wm. Appleton, Jr., were beautifully arranged. The gem basket of roses came from T. J. Johnston; they were selected Bridesmaids.

N. D. Pierce, Jr., and Miss Ida H. Sayles were married recently.

LITTLE RHODY.

ALBANY, N. Y.—John Morrissey will soon open a flowerstore in Kapps' hotel.

THIS IS IT.



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The Model Extension Carnation Support.

Read what some of our best growers have to say concerning it:

QUEENS, N. Y., Feb. 16, '97.

MR. THERON PARKER, Brooklyn, N. Y.,

Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention. Very truly yours, C. W. WARD.

THE MODEL PLANT STAKE CO., 22 Morton Street, Brooklyn, N. Y.

THE AMERICAN FLORIST'S COLOR CHART

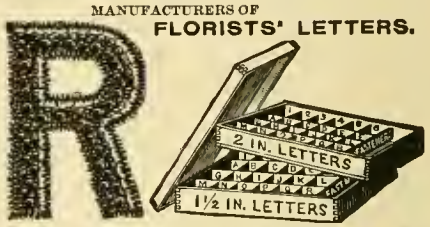
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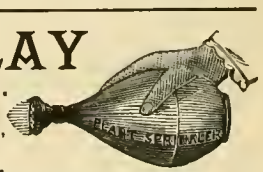
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INDISPENSABLE



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Detroit.

BUSINESS STEADY ON THE WINTER LEVEL.—FLORISTS' CLUB'S PROSPERITY.—TALK ON HEATING.—PLANS FOR THE CONVENTION.—CARNATION SOCIETY INVITED TO COME NEXT YEAR.

Business has settled down to the usual January standard, Violets are again "penny goods" and first class roses are procurable at from 8 cents to 10 cents each. The supply is about equal to the demand.

The Florists' Club is progressing finely. At the last meeting two new members were elected and two applications were received. R. J. Coryell brought to the meeting several drawings and plans of greenhouse heating plants, both hot water and steam, accompanied by the records of tests at two of our experiment stations. The figures relative to heat results obtained from various amounts of coal were not only interesting but very valuable, and provoked general discussion. For the next meeting a dissertation on carnation growing is promised.

The S. A. F. meeting here next August is causing a great deal of interest and "the boys" are doing some hard thinking as to how to make the fifteenth convention the best one the society has ever enjoyed. At the last club meeting it was voted to invite the American Carnation Society to meet here in 1900, and a delegation will go to Philadelphia in February to extend the hospitalities of our city. R. F.

Montreal.

The holiday trade this season was the best on record. Flowers of all kinds were abundant and of first-class quality. Plants in bloom were as usual rather short. More azaleas could have been sold and cyclamens were in great demand. The supply of primulas and solanums was fully up to the demand as we find that the call at Christmas is each year becoming more for larger plants.

Just now we are having a lull and were it not for the great quantity of funeral work business would be exceedingly dull. The supply of carnations is rather short, with Christmas prices still ruling for first quality.

I visited the mammoth lettuce growing establishment of Camille Legare a few days ago. He has over 40,000 lettuce plants on each crop. There is one house 50x200 and several long, narrow houses all heated by hot water; the large house is sub-irrigated, the water being carried in 2-inch drain tiles and seems to work well. BEAVER.

FORT DODGE, IA.—P. L. Larson reports that the holidays saw a greatly increased call for violets and carnations. The volume of trade was fifty per cent greater than the preceding year.

MASON CITY, IA.—Carl Krieger, who has been in the employ of Geo. M. Kellogg at Pleasant Hill, Mo., has leased the greenhouses of F. S. Keith and will do a general retail business here. He is fully qualified to make his venture a success.

Standard Pots Made by

Good Railroad Facilities For shipping. Special Attention Given to Mail Orders, and Special Sizes Made to Order.

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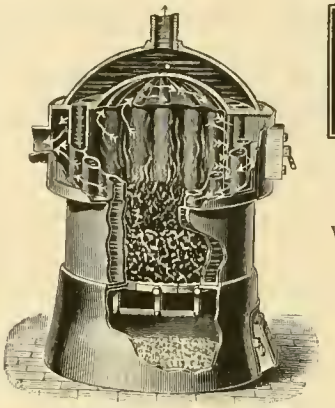
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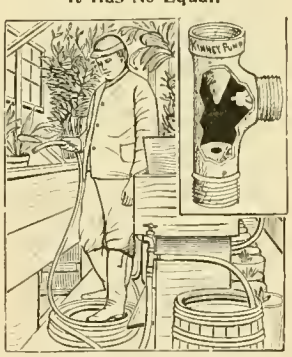
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THE AMERICAN FLORIST



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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—W. N RUDD, Mount Greenwood, Ill., president; P. BREITMEYER, Detroit, Mich., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fifteenth annual meeting will be held at Detroit, Mich., August, 1899.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February 16 and 17, 1899. ALBERT M. HERR, Lancaster, Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich. August, 1899. ELMER D. SMITH, Adrian, Mich., secretary

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Plants Versus Holiday Cut Flowers.

I am under the impression that Albert M. Herr is an expert and most successful carnation specialist and that he knows what it costs him to produce first-class blooms. I am also quite sure that if Mr. Herr would let us have a peep at his books we would be better qualified to write about financial success in carnation growing, as he probably makes as much from this industry as any one can.

I find that last Christmas, the same as at every other, prices were subject to a greater or less demand in all varieties of cut flowers. Extra carnations were scarce, therefore commanded fine prices. Because of the unfavorable summer, at least in this section, the bulk of the carnation crop consisted of inferior blooms which brought but a medium price. I consider it no more than natural for the storekeeper to buy as cheaply as he is able —every one does that. We must consider that the storekeepers are under a large expense all the year around and that there is little doubt that from July to November everyone of them has to draw upon the surplus accumulated during the winter season. Nevertheless, the storekeeper has to buy flowers every day, and sometimes he has to throw many of them away for lack of orders.

It occurs to me that Mr. Herr knows almost nothing about the plant growers' troubles. The plant grower must have all his stock ready for sale at a certain date; he must also sell all these plants and deliver them in good shape, in sunshine or snow, in order to achieve a profit. Cut flowers can always be sold, even if they do not come in at the moment that the market is the best. This is not true of plants. Then, too, one mistake will ruin a house of plants and it does not take many minutes to do it. A trifling error will make a plant grower's product too late for his market and he has the stock on his hands with little chance to get ont whole. The worst cut into the profits of the plant grower is made by people of apparently good standing who get credit before it is developed that the best lawyers cannot make a collection from them. I know this by experience. We had several such cases this year.

It may be further stated that twenty per cent of the plants, either imported or grown here, will not be perfect enough for sale at the season of the best market and must be either sacrificed or carried over to another year. In importing the plant grower also suffers heavily in having stock perish while in the hands of the transportation companies or while delayed by the customs officials, who often hold importations in the public warehouses for weeks. I am certain that the plantsmen around New York have this season encountered enough of these reverses to be entitled to Mr. Herr's sympathy, and their ledgers, in comparison with his, would show them to be entitled to it.

In cut flowers, so far as my experience goes, there has been better money this year than last and prices at present are sufficient to enable a competent grower to make money; and there are hundreds more of them now to divide the profits than there were ten years ago. As to Mr. Herr's fear that plants will eventually displace cut flowers, he may dismiss it—that day will never come to pass. Tastes differ and change, but the buyers who wanted plants this year may next Christmas be calling for cut flowers, and certainly we will never see plants taking the place of cut flowers at funerals. The plant grower will never see the day when he can double his prices for special occasions as the cut flower men now do. It might be different if we had a plant exchange in New York where all the plantsmen could offer their wares the same as the cut flower men do. Then, of course, if an article was scarce and in demand prices would naturally increase. So long as the storekeeper comes to the greenhouse in search of his plants, the plantsman must be moderate in his demands. Mr. Herr insinuates that with the increasing popularity of plants for the holidays the plant grower, if he fails to receive his price, will open a store next door to the retail florist and beat him at his game of selling; but such a course would be suicidal.

Plants are offered in some of the wholesale cut flower houses and this may be a good way of disposing of the surplus of some growers but for good stock the treatment received there would be so harmful as to, in a couple of days, render it unfit for florists' use. Palms, of course, are an exception to this. I have recently seen plants exhibited in wholesale show windows and marked with prices but little above wholesale figures. This certainly must tend to keep down the retail price as buyers who chanced to see the displays I mention would naturally object to the retailer exacting a large profit.

It must be considered that the retail florist seldom sells out clean and sometimes has to throw away large quantities of flowers for which he paid dearly, and last, but not least, the poor commis-

sion dealer gets the blame for all. He cannot get 4 cents for carnations when they are only bringing 2 cents. Sometimes we read about the dollar roses at wholesale, but you can look for them with a lantern in broad daylight without finding very many. They are as few and far between as the 8 cent carnations. But carnations at 2 cents are golden enough so that the grower can find the yellow metal without going to the Klondike. ANTON SCHULTHEIS.

White Japan Lotus.

The Nelumbium album grandiflorum may justly be called the magnolia water lily. It is not new but until recently has been unknown in this country except in a few parks and botanical collections. It proves a worthy companion to the queenly pink Egyptian lotus, but in size surpasses it. The color of the flower is a clear, pearly white, the outside of the outer petals being softened with a creamy tint at the base. The texture is fine and uniform as in Nelumbium roseum. The stamens are long, numerous and prominent; color, bright sulphur yellow. The seed pod is of the same rich color and displays effectively the sparkling waxy white pistils. Both foliage and flower are stronger and more bulky than those of the Egyptian lotus; the flowers open more widely and the petals are broader and more rounded. The flowers rise but little above the foliage and often open amid or beneath it, a habit peculiar to the Japanese lotus. Its fragrance is delightful.

N. album grandiflorum is the largest of all the lotuses. appearing at a distance like a huge, well opened magnolia. It has proven perfectly hardy everywhere in the United States and southern Canada. It is not a wild plant, having been under the highest state of cultivation in China and Japan from time unknown, and does best when under cultivation. If grown in tubs or tanks where it becomes root bound the flowering quality is greatly enhanced.

The extraordinary size of its foliage and flowers, its vigorous, clean habits, the unique color of its flowers and leaves, its hardiness, freedom of bloom and endurance of rough usage will all combine to gain this plant universal favor and the only reason it is not in general cultivation to-day is that its merits are still unknown. GEO. B. MOULDER.

Society of American Florists.

LEGISLATIVE COMMITTEE'S REPORT.

At the November meeting of the New York Florists' Club the delays experienced by importers of plants and bulbs were brought before the club officially, the result being that the matter was referred to the Legislative Committee of the S. A. F. As we have completed our labors for the present, we beg leave to report as follows for publication in the trade press, the reason being that the matters touched upon should be taken cognizance of at once and not allowed to remain until our next convention.

The first action taken by the committee was to insert a call in the trade press requesting written complaints from those who had suffered losses through unnecessary delays. This call not being responded to as promptly or as fully as the circumstances appeared to warrant, the chairman of the committee wrote to twenty-five leading importers, other than members of the New York Florists' Club, asking if they had any complaints against the service in the New York Custom House, and if they desired to place such in the hands of the committee. The responses to that letter were of sufficient gravity and contained specifications which enabled the committee to present a strong case to the authorities. Many of the communications were confidential, and the committee deems it best not to publish any of the communications in the nature of complaints submitted to them. The investigations of the committee showed that the delays proceeded from the following causes:

First.—Irregularities in invoices, caused by shippers failing to comply with customs and regulations as to manner of making out the same, neglect to properly stencil cases with name of country



NELUMBIUM ALBUM GRANDIFLORUM.

from whence shipped and other minor omissions.

Second.—Undervaluation of goods on invoices, according to the market values adopted by the appraiser of the port, causing re-appraisement and vexatious delays, also in many cases penalties for alleged undervaluation, and in some cases loss of goods.

Third.—Delays in trucking goods from wharves to appraisers' stores, the average time consumed in that way having been found to be three days.

Fourth.—Lack of adequate help in examining room to expeditiously handle the goods ordered to appraisers' stores.

The committee also received complaints that the repacking done in the appraisers' stores was faulty, and consequently many plants were damaged from this cause; in some cases every plant among those ordered to appraisers' stores was damaged, some irreparably.

The first step taken by the committee to have the foregoing remedied was to obtain an interview with the collector of the port and lay the entire matter before him. He received the committee courteously and gave them freely of his time, making notes of the various matters as they applied directly to details within his jurisdiction. He promised to use every means within his power to expedite the handling of consignments of plants and bulbs, said he would issue orders to give them preference over less perishable goods, and that he would particularly urge a more prompt transfer from the wharves to the appraisers' stores of cases of plants and bulbs selected for examination.

The committee has pleasure in saying that the various promises made have been performed, and that there is every reason to believe that the improvements effected will be permanent. The collector explained that occasionally the wharves become congested with goods discharged from vessels, and that, as a consequence, the public truckmen could not transfer cases to appraisers' stores as rapidly as he would wish. To overcome that in a measure the collector suggested that the shippers be instructed to see to it that plants and bulbs were stowed on top of the ship's cargo, so that they would be first discharged upon arrival at her wharf.

The committee having learned that a senate committee was investigating matters connected with the Custom House in New York opened communication with them and received the following reply:

[Copy.]

SENATE CHAMBER,
WASHINGTON,
December 3, '98.

PATRICK O'MARA, ESQ., 35 Cortlandt street, New York City.

Dear Sir:—I received your letter of December 2 The committee of the senate which has been making inquiries with regard to the administrative features of the customs act closed its work in New York last week, and I do not think it will have any further sessions. Possibly there is a misapprehension as to the scope of our inquiry. It was confined to suggestions as to how the law might be amended so as to improve it and facilitate both the operations of business and the collection of the revenues. It was not the purpose of the committee to inquire into the propriety or justice of individual cases. But while in New York we were made aware of the delays which had occurred in the appraiser's office in fixing the value of foreign imported plants, bulbs, etc., and talked with the appraiser about it, who seemed very much to regret that there had been any occasion for complaint, and expressed a determination that there should be no avoidable delays hereafter. Yours truly,

(Signed) O. H. PLATT.

The committee next obtained an interview with the appraiser of the port, there being present the assistant appraiser and the examiner. The various causes for complaint were submitted and listened to attentively. The appraiser and his assistants were very courteous and apparently were very willing to do everything consistent with their duties to hasten the goods through the stores when received for examination. It transpired that steps had been taken in advance of our interview to have the force at the disposal of the examiner increased, a very important and valuable improvement. The appraiser said, also, that additional floor space would be provided when necessary. Great stress was laid by all three gentlemen upon having cases properly marked and invoices made out in conformity with the regulations. For the information of the trade, and so that they can instruct their shippers, we obtained sample invoices from the appraiser, which, with the accompanying letter, we submit herewith for publication, which is very important, and every shipper should be instructed to follow minutely:

[Copy.]

OFFICE OF THE
APPRAISER OF MERCHANDISE,
PORT OF NEW YORK,
December 21, 1898.

HON. F. W. WAKEMAN, U. S. Appraiser.

Sir:—Referring to the conference of December 13 between yourself and a committee of the Society of American Florists during which you directed Examiner Lersner to prepare and submit to you specimen forms of bulb and plant invoices made up in a manner best suited to the requirements of the regulations of this office, I

enclose herewith three such forms. The preparation of these invoices has received careful consideration, and the work of this office would be greatly facilitated and the examination of the goods made less difficult if these forms should be followed by shippers in the future.

I would respectfully suggest that these papers be sent to Patrick O'Mara, Esq., Chairman Legislative Committee of the Society of American Florists. Respectfully yours,

(Signed.) T. C. WORDIN,
Assistant Appraiser,
778—C. C. T. Tenth Division.

HOW INVOICES SHOULD BE MADE OUT.

Invoice of bulbs sold (or consigned) by..... to.....

15 cases marked × numbered 1-15.

Number of cases.	Number in case.	Variety and Color.	Size in Centi.	Value per 1000	Total francs
				francs.	
1-5	1500	White Roman Hyacinths	11-12	90	135.00
6-8	1300	"	12-15	120	156.00
9-11	1375	Narcissus Grandiflora.	12	60	82.50
12	1550	"	13	70	108.50
13	1725	" Totus Albus.	—	150	258.75
14	2000	Pink Roman Hyacinths	—	60	120.00
	500	"	—	70	35.00
15	750	Narcissus Campernelle	—	25	18.75
	1000	" Trumpet Major.	—	50	50.00
		Francs			964.50

Invoice of Holland bulbs sold (or consigned) by.....to.....

15 cases marked U. S. 1-15.

Number of cases.	Name and Variety.	Quantity.	Number of bags.	Number in bag.	Value per 1000	Total.
	HYACINTHS					
1	Amy	750	7	100		
			1	50	$50.00	
	Fabiola	300	3	90		
			1	30	65.00	
	Alba Superbissima	500	5	100	52.00	
	Baron Von Tuyll . . .		5	90		
	—White.	500	1	50	40.00	
	" —Blue .	600	6	90		
			1	60	38.00	
2	Ida	100	1	100	85.00	
	La Pluie d'or	500	4	100		
			2	50	46.00	
	Garrick	150	1	100		
			1	50	55.00	
3	Mixed double	500	5	100	34.00	
	" " seconds .	300	6	50	29.00	
	" " & singie .	300	3	100	32.00	
4	Single and red mixed.	300	3	100	36.00	
	" blue. "	300	3	100	37.50	
	Double white "	500	5	100	40.00	
	" pink "	100	1	100	39.00	
	TULIPS.					
5	Artus	600	3	200	4.50	
	La Candeur	2000	20	100	5.00	
	Prosperine	500	10	50	17.00	
6	Double & single mixed	100	5	100	7.50	
	Early single "	250	2	250	8 00	
	Late double and single mixed.	250	4	250	5.50	
	NARCISSUS.					
7	Biflorus	750	3	200		
			1	150	5.00	
	Trumpet Major	400	4	100	9.00	
	Von Sion Dble. Nosed	300	2	150	18.00	
	" " Single "	200	2	100	14.00	
8	Scilla Siberica	1000	4	250	4.50	
	Galanthes Elwesii	2000	4	500	5.50	
	Fritillaria mixed	500	2	250	10.00	
9	Snowdrops double	2000	2	1000	6.00	
	" single	3000	5	600	4.50	
	Allium Moly	2000	4	500	5.00	
	Anemone double	2000	4	500	6.00	

Invoice of 56 cases of azaleas sold (or consigned) to.....by.....

56 cases marked U. S. A. 1-56.

Number of case.	Quantity.	Variety.	Size in inches.	Value 100 francs.	Total.
1	100	Mme. Van der Cruyssen	8-10	150	
2	90	" "	10-12	180	
3	75	" "	12-14	200	
4	50	" "	14-16	350	
5	50	" Specimen plants	18-24	600	
6	100	Deutsche Perle	14-16	350	
7	100	Ponticum named 10 to 15 buds		125	
8	100	" " 15 to 20 "		150	
9	100	Mollis mixed 10 to 15 "		125	
10	100	" " 15 to 20 "		150	

Etc., Etc., Etc.

Each case to be marked with the name of the country from whence shipped: As Belgium.

After the matters of detail which were submitted by the committee had been disposed of the still more important one of market values was taken up. The chairman of your committee urged upon the appraiser that some steps should be taken to fix said values a sufficient time in advance of the arrival of the main consignments in the fall so that importers could enter goods and have them passed upon in the shortest time possible. At first the proposition did not meet with favor, but afterwards an agreement was reached that the authorities would receive a committee next May or June and consult with them in regard to prices for fall importations.

In case the work could not be done through a committee they would receive individuals and accept evidence in regard to values, and from evidence submitted make the schedule. As this is a very important part of the work of the committee, we took pains to get the matter from the authorities and beg leave to submit it herewith:

OFFICE OF THE
APPRAISER OF MERCHANDISE,
PORT OF NEW YORK, N. Y.,
December 16, 1898.

PATRICK O'MARA, ESQ., 35 Cortlandt street.

Sir:—Referring to your conversation with Examiner Lersner in which you asked to be informed what constitutes market value, in order that the secretary of the Society of American Florists might have the information published in your official organ for the benefit of your members, I have to state:

Customs Administrative Act, as amended July 24, 1897, defined "market value" in paragraphs 10, 11 and 19, copies of which passages are enclosed.

In practical administration it is the custom of the appraising officer to determine in proper ways the value of the merchandise in the usual commercial quantities, and to establish a uniform value for the articles in the usual quantities. No special discounts are allowed and no privileges which are not enjoyed by the balance of the trade. Each article is judged by itself without relation to the balance of the invoice.

Any further information you may wish I shall be pleased to furnish. Respectfully yours,

(Signed.) T. C. WORDIN,
Assistant Appraiser,
728—C. C. T. Tenth Division.

SECTION 10.—That it shall be the duty of the appraisers of the United States, and every one of them and every person who shall act as such appraiser, or of the collector, as the case may be, by all reasonable ways and means in his or their power, to ascertain, estimate and appraise, any invoice or affidavit thereto or statement of cost, or of cost of production, to the contrary notwithstanding, the actual market value and wholesale price of the merchandise at the time of exportation to the United States, in the principal markets of the country whence the same has been imported, and the number of yards, parcels, or quantities, and actual market value of wholesale price of every one of them, as the case may require.

SECTION 11.—That when the actual market value as defined by law of any article of imported merchandise wholly or partly manufactured and subject to an ad valorem duty, or to a duty based in whole or in part on value, cannot be otherwise ascertained to the satisfaction of the appraising officer, such officer shall use all available means in his power to ascertain the cost of production of such merchandise at the time of exportation to the United States, and at the place of manufacture; such cost of production to include the cost of materials and of fabrication, all general expenses covering each and every outlay of whatsoever nature incident to such production, together with the expense of preparing and putting up such merchandise ready for shipment, and an addition of not less than 8 nor more than 50 per centum upon the total cost as thus ascertained; and in no case shall such merchandise be appraised upon original appraisal or reappraisement at less than the total cost of production as thus ascertained. It shall be lawful for appraising officers, in determining the dutiable value of such merchandise, to take into consideration the wholesale price at which such or similar merchandise is sold or offered for sale in the United States, due allowance being made for estimated duties thereon, the cost of transportation, insurance and other necessary expenses from the place of shipment to the United States, and a reasonable commission, if any has been paid, not exceeding six per centum.

SECTION 12.—That whenever imported merchandise is subject to an ad valorem rate of duty, or to a duty based upon or regulated in any manner by the value thereof, the duty shall be assessed upon the actual market value or wholesale price of such merchandise, as bought and sold in usual wholesale quantities, at the time of exportation to the United States, in the principal markets of the country from whence imported, and in the condition in which such merchandise is there bought and sold for exportation to the United States, or consigned to the United States for sale, including the value of all cartons, cases, crates, boxes, sacks and coverings of any kind, and all other costs, charges and expenses incident to placing the merchandise in condition, packed ready for shipment to the United States, and if there be used for covering or holding imported merchandise, whether dutiable or free, any unusual article or form designed for use otherwise than in the bone fide transportation of such merchandise to the United States, additional duty shall be levied and collected upon such material or article at the rate to which the same would be subject if separately imported. That the words "value" or "actual market value" whenever used in this Act or in any law relating to the appraisement of imported merchandise shall be construed to be the actual market value or wholesale price as defined in this section.

In conclusion, the committee desires to say that apparently we have done all that can be done at the present time. Among other things submitted to us was a complaint from one firm regarding penalty for undervaluation which they claimed was unjust and further stated that they could not obtain any consideration of their claim by the authorities. The committee presented the case to the collector, and by return of mail received assurance that the matter had never been in his office; application to the Secretary of the Treasury for information brought back a reply in two days, stating that the claim could not be allowed. The appraiser obtained a list of the firms who placed their case with the committee, and mailed to each a letter, copy of which is enclosed.

The committee desires to thank all those who aided them in the performance of this very important mission; they desire also to thank the government officials for the courteous treatment received, and the marked attention paid to their requests.

[Copy.]

Dictated by W. F. W.

OFFICE OF THE
APPRAISER OF MERCHANDISE,
PORT OF NEW YORK, N. Y.
December 20, 1898.

Gentlemen:—We had a call a few days since from your committee on the subject of importations of plants, bulbs, etc. With the co-operation of importers in your line, I think we will be able to avoid any delays in the future, and I beg to

say that it will be a pleasure to meet you or your representatives at any time. Do not hesitate to bring any delays to my attention.

Very truly yours,
(Signed.) W. F. WAKEMAN,
Appraiser.

All of which is respectfully submitted.
The Legislative Committee, S. A. F.
PATRICK O'MARA, Chairman.
JOHN N. MAY,
CHARLES H. ALLEN.
WM. J. STEWART, Secretary.

WITH THE GROWERS.

CHICAGO CARNATION CO., JOLIET, ILL.

Under the management of J. D. Thompson and Jas. Hartshorne there has been established at Joliet, Ill., the most elaborate range of glass for carnation growing in the country. Work was begun on the place late last year, and the propagation of stock and cutting of the best grade of flowers in the market is now going on as smoothly and extensively as if the concern had been engaged in the business many years.

It was originally intended to erect iron houses and the Lord & Burnham Co., of New York, supplied the plans for same. Wooden structures were finally determined upon, however, and the plans were slightly modified in conformity with the building material employed. The range, as shown in the illustration, consists of eight houses 22x200 feet, with excellent offices and accommodations for the employes, a number of whom sleep on the premises.

The houses were built by Michael Winandy, Rogers Park, Chicago, and completed, ready for planting, within thirty days. This is a feat in greenhouse building which it would be difficult to eclipse, especially when it is considered that the materials and workmanship put into the buildings by Mr. Winandy are most thorough and substantial.

Hot water under pressure is employed for heating and supplied by three No. 9 Kroeschell boilers, each with capacity for 6,000 feet of 4-inch pipe. Two of these boilers maintain the necessary temperature, the third being held in reserve for emergencies. Each house contains eight runs of 4-inch pipe, connecting with 8-inch mains in a tunnel which traverses the range in the center. Cement joints are used exclusively, and they have given entire satisfaction thus far.

Ventilation is continuous on both sides, all the houses being fitted with the Challenge Ventilating Apparatus supplied by the Quaker City Machine Works, Richmond, Ind. The houses are divided by partitions, glass in panes 16x24 constituting the upper portion of same. The



J. D. THOMPSON.

benches are six inches deep, and Model supports, manufactured by the Model Plant Stake Co., Brooklyn, N. Y., are used for the plants.

Carnations are grown exclusively, but only a few of the best varieties, including Mrs. Geo. M. Bradt, Argyle, Mrs. Frances Joost, Flora Hill, Gold Nugget, Evelina, Victor, Armazindy, Jubilee, Daybreak, Mrs. Jas. Dean, Bon Ton, New York and John Young. It is the intention to grow still fewer sorts next year, retaining only the cream of the varieties at present in the market.

Mr. Hartshorne considers Mrs. Bradt, Gold Nugget, John Young and Mrs. Jas. Dean the best in their respective colors. Dorner's G. H. Crane will probably be grown next year. Bon Ton, as Mr. Hartshorne grows it, has sold better than Jubilee, but Mrs. Jas. Dean brings the highest price of all. Argyle is spoken of highly. Mrs. Frances Joost is considered an improvement on Scott, and the best "bread and butter" carnation. Evelina is found, very free flowering and Armazindy extremely useful in that it can be used as a white or as a variegated.

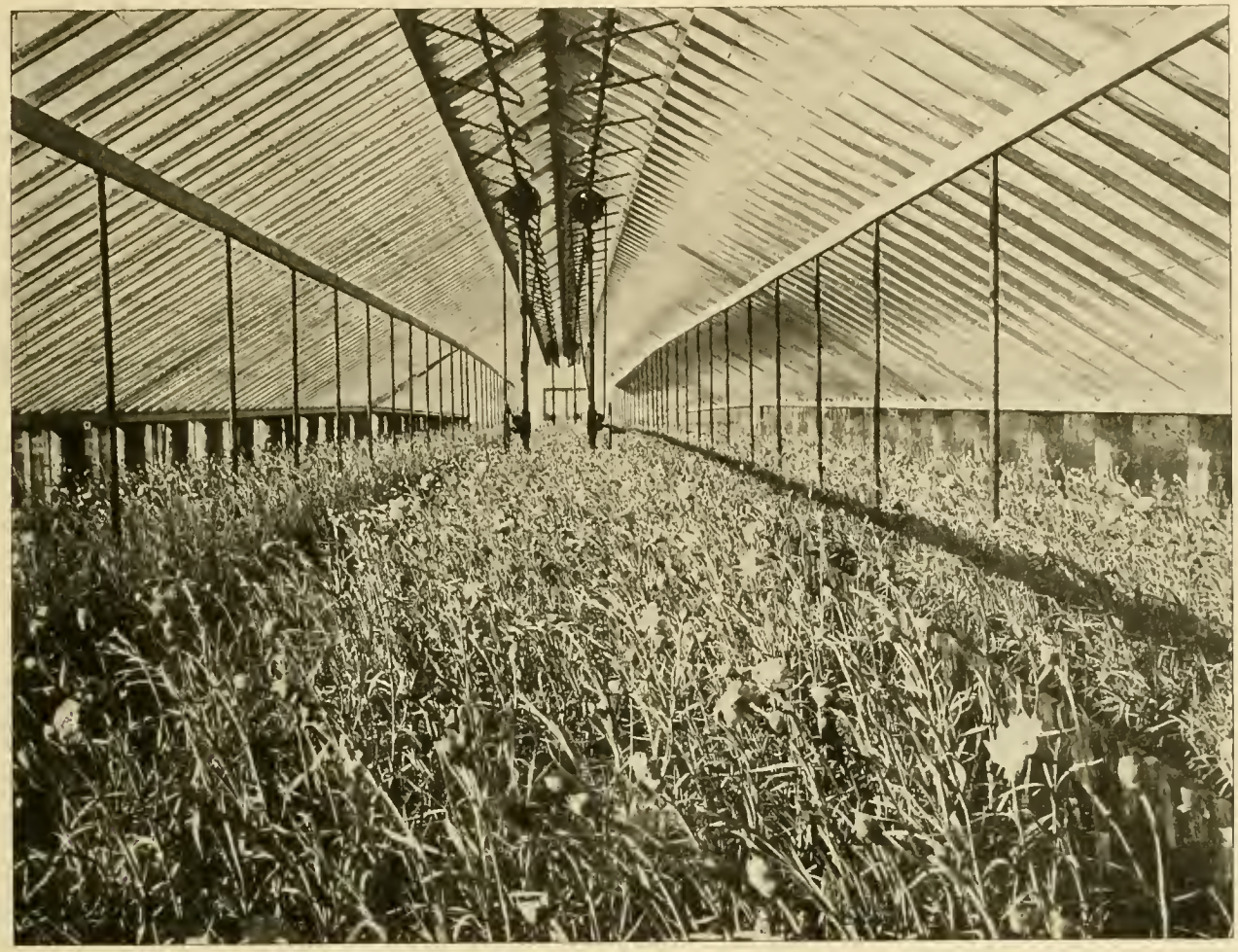
Victor is perhaps the most prolific variety on the place and the flowers readily fetch from three to five cents. Between September 25 and the same date in December 3200 plants of this variety produced 21,000 marketable flowers. Another record of cut blooms shows that 1575 plants of Flora Hill gave 1300 flowers between October 1 and December 25. A record of the cut from each variety is kept in this way, together with prices obtained, and such records, carefully followed to the end of the season, must be valuable when the time comes to make a selection of varieties for the next season.

Considering that many of the houses were not planted until late in the season, Mr. Hartshorne's success in securing the highest prices for his product is certainly remarkable. Healthier plants or better blooms are not to be found anywhere. But in all the rush of work attending the establishment of a new plant, time has been found to do much effective work with seedlings. One of Mr. Hartshorne's novelties (No. 11) has been already awarded the certificate and medal of the Chicago Horticultural Society, but it is safe to say that some not yet exhibited will prove to be record breakers. Many excellent seedlings were marked for the rubbish pile, because it is the practice at this place to discard everything of this character which fails to show some improvement on older varieties.

Mr. Hartshorne is well known to the trade, especially for his work among carnations and chrysanthemums. The other prominent member of the firm, Mr. J. D. Thompson, whose portrait appears herewith, is also manager of the extensive estate of Mr. H. N. Higinbotham, at Joliet, a position he has occupied for five years past. Formerly he was in the employ of Marshall Field & Co., of Chicago. Mr. Thompson is also an extensive grower of sweet corn, practically supplying the Chicago market with that vegetable from the 600 acres which he devotes to it.



GREENHOUSES OF THE CHICAGO CARNATION COMPANY, JOLIET, ILL.



CHICAGO CARNATION COMPANY'S HOUSE OF CARNATION MRS. BRADT.

The erroneous reports which have been going the rounds of the general press during the past few weeks, with reference to the sale of the variety Mrs. Thos. W. Lawson, by Peter Fisher, of Ellis, Mass., recall the fact that the Chicago Carnation Co. offered $4,000 for this seedling last February.

CARNATIONS.

CULTURAL NOTES.

January 21.—After getting a good healthy carnation cutting well rooted it becomes necessary to at once begin the care required all the way through life to get the best results.

If started in sand it is well to take the cuttings out as soon as they have formed small roots, as there is no nourishment in the sand and they are injured by allowing them to stand until they have formed a heavy clump of roots and have made a corresponding top growth. Some prefer to place the young plants either in flats or benches, and others put them into pots. Either plan will produce good results, but I choose to pot them, as they then have more room than is usually given on benches and are not so liable to suffer from careless handling when transplanted to the field or the house.

For growing indoors there is not much danger of the potting soil being too rich, as they should be pushed from the time they leave the cutting bed until they are thrown out the following summer, and the larger and stronger you can get your young plants the better results you will have next winter. But for growing outdoors the soil into which cuttings are potted or planted should not be so excessively rich that it will produce a soft luxuriant growth only to be checked by a poor soil in the field.

If cuttings are planted on a bed or in flats they should be given at the least two inches each way, and if they are to be grown indoors they should have not less three inches, and would be all the better for four inches. You simply can not have good carnations unless you are willing to give them the proper care and room. If you pot them they should be put into a small rose pot for a start and repotted later on; frequently even a third potting will not be time wasted.

The best houses for young plants are those running north and south, even span, as there is less likelihood of their drawing to one side and becoming deformed. I think the general run of growers adopt a regular carnation temperature for their young stock. If for outdoor planting and you can get your soil in shape early in the season there is a slight advantage in starting the young plants in the regular blooming temperature and gradually reducing it so that by the time your soil is ready your plants will be growing in the temperature they will be likely to encounter outside. If wanted for indoor planting almost the opposite method should be adopted, as in the latter case, by the time you are ready to plant, the temperature of the houses will be above that in a carnation house during the blooming period.

On no account let your young plants suffer for the lack of water, and still less from an overabundance of it, as both conditions will surely bring on disease. Red spider should be kept away by the application of sulphur to the heating pipes and the use of a rose in watering; it should never be necessary to syringe the young plants to kill the spider.

ALBERT M. HERR.

VIOLETS.

THE VIOLET GALL FLY.

ED. AM. FLORIST:—We would appreciate it as a favor to find in your columns a description of the form and habits of the violet gall fly that would enable us to distinguish it from the flies commonly found in greenhouses. A suggestion as to remedies would also be of much service. FLORISTS.

The so-called gall fly of violets is an undescribed species of cecidomyiid, to which family belong the Hessian fly, clover seed midge, and other pests. It would appear to be a comparatively new pest, at least in this country, and it is not impossible that it is an introduction from abroad. It would be a difficult matter to describe the insect in such a manner that florists would be able to distinguish it from other flies

found in greenhouses. Unfortunately there are several species of sciara which resemble it superficially and which breed from manure and decaying vegetable matter grown under glass.

Briefly, the parent gall fly may be described as a minute, slender, two-winged fly, measuring about one twentieth of an inch in length. It has long slender legs and antennæ, the latter 14-jointed, and is altogether a very inconspicuous creature. The larva or maggot, which is to be found folded up in the leaves of violets in such a manner as to bring the upper surfaces together in what is sometimes termed a gall is a minute legless creature of a whitish or yellowish color. From one to three or more of these maggots are to be found in a single gall.

Of the habits of this species comparatively little is known. I am therefore glad of the opportunity to bring the subject to the attention of florists, as I hope the coming spring to obtain through correspondents specimens of the larvæ as material for rearing the insect and thus studying its habits and development. I am also desirous of ascertaining more concerning its distribution. At present we know it from Washington, D. C., where, however, it has not been recently noticed; Richmond, Va.; Nyack, N. Y.; and Tappan, N. Y. It is also reported from Gordonsviell, Va.

According to Mr. A. Davison, one of our correspondents, at Nyack, N. Y., the maggot secretes itself in the crown of the plant. The leaves as they come up are tightly curled, and when unfolded there will be found six or eight small white maggots. The maggots seldom appear on the side crowns, thus affording them an opportunity to make good flowers, although the flowers will not be as large as crown flowers. When the maggot leaves the plant it enters the ground.

Mr. Davison has expressed the belief that the fly was introduced into his greenhouses through manure purchased from a party who collected garbage, but further experience is necessary to confirm this opinion.

The remedy generally employed against this pest consists in picking off and destroying the infested leaves. It should also yield to a dusting of Buhach insect powder which has been found a specific against similar gall flies on roses. Tobacco, however, cannot be safely used to any extent on violets owing to the danger of producing spot. The best remedy for this species is hydrocyanic acid gas, which will be fully described in Circular No. 37 of the Division of Entomology, U. S. Department of Agriculture, which is now in the printer's hands and will be available for distribution in a few days. Copies of this circular will be sent to persons requesting it.

Washington, D. C. L. O. HOWARD.

GLASS FOR VIOLET HOUSE.

ED. AM. FLORIST:—I would like to ask through your columns whether there would be any gain in the flowering of violets where the houses run east and west by the use of glass larger than 7x9? I should also like to know of any grower who raises the Victoria Regina violet.

A SUBSCRIBER.

There seems to be no positive data on this subject, and in order to determine whether the size of glass has any influence on flower production it would be necessary to conduct a number of experiments under as nearly the same conditions as possible and extending through several years. The results obtained from such experiments, however, would probably not hold good for any other locality than the one in which the experiments were made, owing to the fact that different conditions prevail in different places. Although every practical grower has doubtless seen large crops of good violets growing in frames under glass even smaller than 7x9 inches I do not think they would as a rule advise the use of glass smaller than 12x12 inches, or larger than 16x25 inches in violet houses, and it is my belief that glass coming within this range will give the best results.

Washington, D. C. P. H. DORSETT.

VIOLET ROT.

ED. AM. FLORIST:—Please give in your next issue the cause of a rot in the crown of violets, with remedy, and oblige.

J. T. G.

It is impossible to decide from the brief request just which form of rot the complainant has in his plants. There is a decay of the crown that follows from the attacks of a gray mould that destroys the outer leaves and may finally reach and injure the crown. There is a disease similar to that of the lettuce heart rot that may do much damage. This may start in the young leaves and possibly follow from the puncturings of the aphis. The rot is sometimes prevented by withholding water from the crown. Some form of sub-irrigation may be resorted to and if insects are at the bottom of the trouble fumigation with tobacco stems may be employed, or an application of the decoction of tobacco directly to the diseased plants. This latter should be in a dilute form as violets are very susceptible to injury by insecticides as well as fungicides. Of the latter the best is probably the cupram, and it may be of service with the rot in question.

BYRON D. HALSTED.

WILMINGTON, N. C.—Miss Lucy Moore has just completed two commercial houses, each seventy-five feet long.

PORTLAND, ME.—E. J. Harmon, who has a fine business here, will shortly erect two greenhouses each 60x300 at South Portland.

ROSES.

ROSES IN TENNESSEE.

Our illustration is from a photograph of a house of Brides taken November 10 at the establishment of Joy & Son, Nashville, Tenn. The plants are grown in solid beds, and this season they are producing the finest flowers ever cut by the Messrs. Joy. Details concerning the age of the plants and their general treatment would be interesting.

METEOR THE SECOND YEAR.

ED. AM. FLORIST:—Other things being equal, will Meteor carry over the second year with as good results as Mermet, Wootton and Belle Siebrecht? W. S. H.

With reasonable treatment there is nothing to prevent Meteor being carried over with good results, and as "W. S. H." has evidently had some experience in carrying over the other varieties named above, practically the same treatment should carry Meteor over with equal success.

JOHN N. MAY.

KEEPING CUT BLOOMS.

ED. AM. FLORIST:—Having had considerable complaint during the last two winters with regard to the keeping qualities of my roses when placed in rooms, I would feel much obliged for some information on the subject, principally as to the temperature at which the ice chest should be kept and how long roses may be retained in an ice chest without detriment to their lasting qualities when transferred to rooms for decorative purposes. I now grow my roses in a night temperature of 55° to 60°, increasing it from 5° to 10° during the day, according to weather conditions. The ice chest is kept at 38° to 40°. Sometimes I am obliged to keep the flowers in the ice chest three days, but never longer than that. I grow Bride, Bridesmaid and Perle.

J. S.

To keep cut roses that are grown in a mean temperature of 60° to 70° they should not be kept in a temperature below 45°, and it is not reasonable to expect that flowers can be kept three or four days after being cut from the plant in a cold temperature and then be expected to



BRIDE ROSES AT THE ESTABLISHMENT OF JOY & SON, NASHVILLE, TENN.

last for any length of time when transferred to warm rooms. I think that if "J. S." will keep his flowers in a temperature of, say, 45° and not keep them over thirty to forty hours at most there will not be much complaint. Of course there is considerable difference in the temperature of living rooms where these flowers are sometimes used. It is not at all reasonable to expect flowers to keep any length of time in rooms that are heated by hot air from furnaces to from 65° to 76°; such atmosphere is so extremely dry that the hardiest flowers will wilt very shortly. JOHN N. MAY.

Philadelphia.

BUSINESS SHOWS AN IMPROVEMENT WITH A SHORT SUPPLY OF STOCK.—GOOD FLOWERS PURCHASED ON SIGHT AT STIFF PRICES.—CARNATIONS AND VIOLETS PLENTIFUL.—TULIPS AND VON SIONS AT YOUNG'S.—THE FARMERS' INSTITUTE.—THE MATTER OF ROSE CROPS.

Business is a little better than last week and, all the crops appearing to be off, flowers, particularly good ones, are very scarce. Good Brides and Bridesmaids are bringing $12 per 100 at first sight, and some dealers feel themselves lucky to get even a look at them. There are not nearly enough American Beauties to go around. Fifty cents each is asked for the best and they are not at all up to the standard of two weeks ago.

A grower takes exception to my last week's remarks about crops all coming together at this season of the year. He says it is quite possible to have one table of roses going out while another in the same house is just coming in and this applies to any time of the year. Perhaps we can prevail on him sometime to tell how it is done.

Carnations are plentiful at from $1.50 per 100 up to $3 and a few extras bring $4 to $5. Violets are rather too plentiful and $1 buys very good stock, in fact, nearly, if not quite, the best. Tulips are commencing, J. W. Young having the first in, also a few Von Sion daffodils, but hardly of marketable size; $3 to $4 is the price.

W. K. Harris is cutting some fine new-crop lily of the valley. It is from Hagemann pips and either the brand or the growing makes it the best in the market. Harrisii lilies are becoming quite plentiful in the store windows. Greens of all kinds seem to sell well. Adiantum is getting scarcer and the bunches of twenty-five sprays are much smaller; $1 per 100 is still asked. Asparagus Sprengerii also sells well at from 2 to 5 cents per spray.

The Farmers' Institute at Horticultural Hall last Tuesday was very interesting. There was an exhibition of begonias and prominent among them and away ahead of anything else was a plant of Gloire de Lorraine; it was a revelation to those who had not seen it, and nothing has been said or can be written that is too good for it. W. H. Taplin told how to care for plants in the house and illustrated his remarks with specimens of all the varieties he described. W. A. Manda, of Orange, exhibited a yellow cypripedium and Mr. Clinkaberry a fine new hybrid cypripedium with two flowers. The meetings were well attended and very much enjoyed by all present.

E. M. Wood, of Boston, was in town the past week. He is much interested in the new rose Liberty, and rumor has it that he has acquired an interest in this coming beauty and will handle it in the New England territory.

W. A. Manda was also a visitor. K.

Boston.

ACTIVITY IN FUNERAL FLOWER WORK.—ROSES OFF CROP AND SELLING WELL.—WHITE FLOWERS OF ALL KINDS EXPERIENCE A BOOM.—VIOLETS STILL IN THE DUMPS.—GRADED LILY OF THE VALLEY.—SENSATIONAL ADVERTISING AND A RETAILER'S ENTERPRIZE.—NEW MANAGEMENT OF THE TWOMBLY COMPANY.—WABAN CONSERVATORIES TO DISTRIBUTE LIBERTY.

The market is fairly good this week on roses. Most of the growers are off crop and the light supply seems about right for the demand, which, while only moderate in volume for the time of the year, is yet sufficient to prevent any accumulation of stock. This is true of all the colored varieties. Beauties find a fair and steady market with but little fluctuation in value since New Year's and Meteors go all right, although lower than they were. On white roses, however, the call is decidedly sharp. Brides have been the leader for the past two weeks; they are wanted in town and out of town and there would be little difficulty in disposing of a much larger stock than is available at the present time. Retailers are having a steady run of funeral calls and this is in part responsible for the demand for white roses. White carnations, naturally, share in the activity, and, outside of the fancy varieties, hold the lead as to prices, bringing nearly or fully twice as much as Scott, which, for some reason, possibly overabundance, seems to get decidedly the small end of the bargain in this market this season. Daybreak does better than Scott, ranging about midway between Scott and the white sorts.

Violets continue to occupy the mourners' seat, in company with the bulbous stock, but the latter has held that position so long that it accepts it as a matter of course and no grumbling is heard, whereas the experience is rather unfamiliar to the violet grower and consequently the complaining is loud and the disappointment acute. One thing is sure—the quality of the violets is not the cause, for never before has this market been favored with violets of such high grade as most of the growers have produced this year, and it is greatly to be regretted that they are not recompensed accordingly. The cause is not entirely over-production either; the fact is that the violet seems, for the time being, to have waned in the public fancy. As soon as the weather favors curbstone peddling no doubt violets will move lively again but under such conditions extremely low prices are all that the growers can count on.

As daffodils and yellow tulips multiply, patches of bright yellow appear in the store windows and their spring-like suggestiveness fixes the attention of the passer as no other color can. Bunches of acacia are also beginning to show up and there are vases of that prettiest of all yellow flowers, the coreopsis, which one seldom sees outside of Boston at this season of the year. Freesias are coming in freely and together with Paper Whites and Roman hyacinths, whose adversity they have often shared in the past, are just now enjoying the stimulus of the funeral demand. Callas and lilies are also seasonable stock, under prevailing conditions. Lily of the valley, following the example of the roses, now boasts of three grades. The result is the same as with the roses—the selected fancy grade brings a price which ruled for ungraded stock a few years back and the rest of it must take its chances with the "culls" for cheap design work.

The daily papers have this week overflowed with sensational stories regarding the fortunes of the Mrs. Thos. W. Lawson carnation and the sum of $6,000 said to have been offered by Mr. Higinbotham, of Chicago, for the entire stock now appears very modest in the light of a "raise" to the tune of $15,000 for one-half the stock which a nameless New York wholesaler is represented to have made. All of which goes to prove, what needs no proof to those who know that gentleman's abilities, that Boston has in Mr. Thos. F. Galvin, who controls the cut flowers of this famous carnation, a bold and fearless advertiser who, without half trying, can cast a deep shadow on the puny efforts of his contemporaries in any other village on this continent when a hypnotizable reporter comes around.

It is understood that a number of capitalists, with whom rumor connects the name of Oakes Ames as president, have taken control of the affairs of the Twombly Company and propose making a gigantic affair out of it, building large greenhouses, etc., in the hope of eventually controlling a large share of the retail trade of New England and even more remote sections.

The control of the New England states for the distribution of the new red rose Liberty has been secured by the Waban Rose Conservatories. It could not fall into better hands. The trade knows what kind of stock to expect from Mr. Montgomery's benches.

Most agreeable, although unseasonable, has been the April-like weather experienced during the past few days up to the time of writing these notes. The disappearance of the snow drifts which have been lying since the memorable November blizzard exposes some of the havoc done at that time in the way of broken down rhododendrons and other low evergreen shrubbery.

The lecture at Horticultural Hall on Saturday, January 14, was on diseases of plants, especially those caused by parasitic fungi, by Prof. W. T. Sedgwick, of the Massachusetts Institute of Technology.

Wm. H. Elliott has bought 125,000 square feet of land adjacent to his establishment at Oak Square. More asparagus!

Visitor in town: R. E. Shuphelt, Chatham, N. Y.

Baltimore.

GARDENERS' CLUB HOLDS A SMOKER, DISCUSSION AND CARNATION SHOW.—FINE BLOOMS EXHIBITED.—THE QUESTION OF A FALL SHOW.

The Gardeners' Club smoked and discussed carnations at its recent meeting and inspected what the committee declared to be the finest display of carnation blooms ever staged here. Exhibits were made by Halliday Bros., who had seven vases; H. Weber & Son, Oakland, Md., eight vases; C. M. Wagner and J. L. Wagner. Cook Bros. made a display of fine mignonette. The committee, Messrs. B. F. Litton, J. H. Moss, Michael Hannigan, Hugo Walther and Fred Bauer, reported that the display of Halliday Bros. was as fine as ever exhibited at the club and showed superior culture, and that Messrs. Weber had made a very creditable showing.

A committee consisting of Harry Ekas, Charles Wagner, W. Paul Binder and John Donn has been appointed to report on the advisability of holding a chrysanthemum show next fall.

THE AMERICAN FLORIST

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THE demand for plants of the blue marguerite, Agathæa cœlestis, still exceeds the supply.

CROZY AINE, the famous canna specialist, formerly at Lyons, is now located at Hyeres (Var.) France.

PLAN now to attend the next meeting of the American Carnation Society, to be held at Philadelphia February 16 and 17.

WM. FALCONER, superintendent of Schenley Park, Pittsburg, has returned from Jamaica from a successful quest of economic plants.

SOME fine blooms of his carnation Merriamac, a pink seedling of Scott and McGowan parentage, have been received from J. M. Gasser, of Cleveland, Ohio.

W. DAETHE, a representative of the German government, fresh from a tour of France and England, is visiting points of horticultural interest in the United States.

THE Worcester County Horticultural Society has issued its premium list for 1899, with schedules of twenty-one exhibitions to occur between the dates of March 16 and October 12.

ERNST ASMUS, of West Hoboken, N. J., informs us that one-fourth of the stock of the new rose, Liberty, has been disposed of to E. M. Wood & Co., Natick, Mass., for distribution in the New England states.

GEORGE MORRISON, writing to H. A. Dreer upon the flora of Hawaii, reports that our new possession is rich in ferns, crotons and other valuable plants and that bougainvilleas flourish there. He states that but three varieties of orchids are known on the island.

WE are in receipt of flowers of some promising seedling carnations from J. O. Zimmerman, Pueblo, Col. Stem and calyx are good in each case, and a series of Scott and Daybreak crosses affords some pleasing shades, especially Nos. 11 and 12. A cross of Scott and Dr. Warder is of a rich port wine color. All the flowers are small, but the size will doubtless improve in some of the varieties with good cultivation another year.

Just in Time.

The American Florist Company's Directory of florists, nursery and seedsmen for 1899, now ready, appears at the right moment to put the spring trade lists direct to live people. The names and addresses of 1336 new firms have been added in this edition, and all lists revised to date. Price $2.

Greenhouse Building.

Evanston, Ill.—A. E. Hunt, two commercial houses and boiler house.

Toledo, O.—Park greenhouses to cost $12,700.

Helena, Mont.—State Nursery Company, rose house 17x130, smilax house 16x50.

Waukesha, Wis.—John Grape, greenhouse 16x25.

South Evanston, Ill.—Risch-Wieland Floral Company, nine houses 25x150.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

M. H. Walsh, Woods Holl, Mass., registers the new hybrid tea rose Lilian Nordica, a cross between Margaret Dickson and Mme. Hoste. Color pure; buds long and borne on long stems; flowers large, double and with strong tea fragrance; foliage dark green and profuse; growth vigorous; plant perpetual bloomer and is hardy at Woods Holl.

WM. J. STEWART, Sec'y.

American Carnation Society.

Arrangements have been made for the accommodation of members and their friends at the Lafayette hotel, Philadelphia, for $1 and $1.50 per day on the European plan.

The Lafayette is convenient to the meeting place and hall and it is desired by the managers that they know how many to expect at the latest one week in advance of the meeting.

Members or others desiring to stop at this hotel should notify the secretary not later than February 7, or they can if they so desire write to the hotel direct and secure the rates given by stating that they will attend the meeting of the society.

Communications regarding space in the exhibition hall should be addressed to Geo. C. Watson, Juniper and Walnut streets, Philadelphia, Pa.

Entries should be made with the secretary as soon as possible to avoid the confusion of the opening day of the exhibition and possible errors resulting therefrom.

The meeting promises to be a big one, the show a bigger one and every live carnation grower should arrange his affairs now so that he can attend.

ALBERT M. HERR, Sec'y.

Lancaster, Pa.

Foliage of Rubbers and Bananas Scalded.

ED. AM. FLORIST:—We have lately erected a greenhouse 20x50 feet, sides eight feet high and center twelve feet. The even span roof is made of hotbed sashes. We find plants such as rubbers, bananas, etc., scald in this house and would like to have your opinion as to cause of same. The glass is lapped from one to one and one-fourth inches and a small quantity of water which collects at the lap takes some time to evaporate. Might this be the cause? Would paint or putty stains produce the trouble? There are no blisters in the glass. Any information will be gladly received. H. C. A.

Replying to above, we have always heretofore blamed defective glass when the leaves of plants growing thereunder are scalded, but whether we are justified in so doing or not we cannot positively say. Some years ago the idea was advanced that drops of water in the greenhouse would sometimes so concentrate the sun's rays that a scald in the leaves where the concentration struck would be the result. If "H. C. A." would make an effort to determine what in his case was the cause of the leaves of his plants scalding, it would all be in the interest of horticulture and for the benefit of science. Paint or putty stains would not, we are inclined to think, produce the trouble. We ourselves have had troubles of this kind, and when we have found, as we thought, the defective pane of glass, have smeared paint thereon with what we confidently believed to have the desired result. If it is as "H. C. A." says, "there are no blisters in the glass" in his greenhouse, some other cause than the one given must be looked for. A plant that is allowed to become too dry at the roots is often more susceptible to the scalding tendency than plants which are never allowed to suffer in that respect. It is a very difficult question for the undersigned to satisfactorily answer, as he has never yet been on hand when the trouble was being done, so that the best he can do is to give what has generally been considered the cause of the trouble. Here is something for the experiment stations to wrestle with. E. D. W.

Phosphate of Ammonia.

ED. AM. FLORIST:—I wish to inquire of Professor Britton what form of phosphate of ammonia he uses in the preparation of the liquid fertilizer mentioned on page 439 of your issue of November 12? The straight article is quite expensive here (23 cents per pound) and I have thought that perhaps there may be some cheaper compound which he employs for this purpose. F. H. C.

I have used the pure phosphate of ammonia in making the liquid fertilizer. It is rather expensive, but very little is required as a pound is sufficient to make 400 gallons of the liquid. So far as I know there is no cheaper commercial grade of phosphate of ammonia.

W E. BRITTON.

Galvanized Iron Pipes for Heating.

ED. AM. FLORIST:—I would like to inquire whether any of your readers have ever tried galvanized iron pipes for heating by hot water, and with what results? There is manufactured here a heavy corrugated, galvanized iron pipe in ten-foot lengths and three or four inches in diameter, which can be purchased at moderate cost. All the joints are soldered, and it is claimed that on account of the corrugation, expansion and contraction are satisfactory. If such pipes can be used advantageously for greenhouse heating, the expense and annoyance attending the defective joints of iron pipes might be materially lessened. Z.

While I have never tried galvanized pipes for heating, I doubt if they can be used satisfactorily. In order to have the corrugations provide for expansion, it will be necessary to have them run around the pipe and these irregularities can hardly fail to hinder the circulation. Even with the pipes thus corrugated, I should have some fear that the soldered joints would draw apart unless provision was made for the expansion of the pipes, the same as with cast iron or gas pipe. If such is the case, "the expense and annoyance attending the defective joints," would be greater than with iron pipes. If, as I infer, the pipes are of heavy galvanized sheet-iron, there will also be danger of its rusting at points where it may be imperfectly galvanized, or where the iron may become exposed.

L. R. TAFT.

Publications Received.

ADULTERATION OF COFFEE AND TEA.—By W. A. Withers and G. S. Fraps.—North Carolina Exp. Sta., Raleigh, N. C.

MISCELLANEOUS RESULTS OF THE WORK OF THE DIVISION OF ENTOMOLOGY.—Department of Agriculture, Washington, D. C.

POISONOUS PROPERTIES OF WILD CHERRY LEAVES.—By Fred. W. Morse and Charles D. Howard.—New Hampshire Exp. Sta., Durham, N. H.

FARMER'S BULLETIN No. 84.—Department of Agriculture, Washington, D. C.—This treats of many subjects, including "Home-mixed Fertilizers," "Forcing Asparagus in the Field" and "Field Selection of Seed."

FLORILEGIUM HARLEMENSE, October, 1898.—Published under the auspices of the Council of the Algemenne Vereeniging voor Bloembollencultuur, Haarlem, Holland.—This issue contains colored portraits of Hyacinth Mont Blanc, Tulip Joost Van Vandel and its white variety, and four forms of Iris Xiphium (Hispanica).

OBITUARY.

W. W. EDGAR, SR.

W. W. Edgar, Sr., father of William W. Edgar, the well-known fern specialist of Waverly, Mass., died January 10 at the home of his son. He was 82 years of age.

L. C. HAUSSERMANN.

Louis C. Haussermann died on January 8 at his home at Leavenworth, Kan. He was the husband of Lizzie Byrns Haussermann, senior partner in the firm of Byrns & Katzung, the leading florists of Leavenworth.

REV. J. HERMAN WIBBE.

The rector of St. Joseph's church, Schenectady, N. Y., died January 7, aged fifty-five years. He was a leading botanist and was at one time consulting botanist at the Smithsonian Institute at Washington. His herbarium was considered one of the most complete in the United States.

ROBERT MATHISON.

Aged 87 years, this veteran Philadelphia florist and gardener breathed his last on January 7. He was born at Preble, Scotland, and came to America when sixteen years old, locating on Long Island, where he learned his trade. He was a veteran of the Rebellion, having served in the Collis Zouaves.

WILLIAM W. COOK.

William W. Cook, who was at one time the leading florist in the vicinity of Worcester, Mass., died January 11 at Chapin Home in New York. He was seventy-eight years of age. Mr. Cook was a member of the Worcester Horticultural society, joining in 1865, and was for fifteen years a member of its board of trustees.

THEODORE WHITSON.

The senior member of T. Whitson & Sons, Atglen, Pa., died on January 5. He had for several years been menaced by heart disease, to which he at length succumbed. Mr. Whitson was fifty-eight years of age and leaves a widow and five children. He had been in business at Atglen for many years and during the civil war was a member of Co. E. 122d Penn. Vol.

New York.

RETAIL TRADE VERY MODERATE.—LIGHT RECEIPTS IN WHOLESALE MARKETS.—VIOLETS STILL SLOW.—CARNATIONS SHOW MARKED IMPROVEMENT.—AZALEAS SELL WELL.—LOCAL NOTES.

Considering that it is now nearing the height of the season and that Lent is but four weeks away the flower trade of New York cannot be said to be good. There is a dearth of affairs calling for the use of large quantities of plants and when such occasions do occur the disposition is to make the floral display as insignificent as possible and to depend as far as practicable upon the product of the home conservatories, the florist being called upon only to furnish missing items and to do the work of arranging. In the wholesale establishments there is no evidence of an accumulation of stock, however, owing to the fact that fortunately, the receipts are very light and so the prices are maintained with commendable evenness. On violets, only, is serious weakness discernible; they have dropped twenty-five per cent in value on an average within the past week and no one now thinks of getting them back to the usual midwinter figures, although the mildness of the past few days has helped the sale of violets and carnations materially. No other flowers seem to benefit from cheerful sunny weather as do these two especial favorites of the transient buyers.

Roses have turned the corner and the tide will rise as they gradually come into crop again. It is fortunate that the period of light product should have come at a time when the demand was equally light, and the fact is creditable to the judgment of the rose growers who managed to balance their crop so nicely between chrysanthemum time and the after-holiday inactivity. Tulips are now seen in all the usual market colors and are improving in flower and stem, some of those now coming in being very good for the season.

The plant trade is reported as fairly steady, palms and large ferns enjoying a regular and satisfactory sale. Ericas are still good and there are plenty of small, low-priced Chinese primroses in market that sell in large quantities, especially in the medium-class sections of the city. Azaleas are selling very well, much better in fact than at any time this season with the exception of the special holiday rush.

R. W. Clucas returned on January 14 from a trip to Bermuda.

Jos. Millang has been engaged as manager of the New York Cut Flower Co.

Visitors in town: E. M. Wood, Boston; W. F. and A. Gude, Washington.

LINCOLN, ILL.—W. H. Gullett & Sons supplied the decorations for the swellest ball of the season at Decatur, Ill.

ATLANTIC, IA.—Christmas far ahead of last year; sold out of everything presentable; prices good. C. G. A.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1899 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By a strictly sober florist; capable and willing, and the best of recommendations. Address E J C, care American Florist.

SITUATION WANTED—By first-class rose grower. Beauties a specialty; 20 years' experience; best references. Address M, care American Florist.

SITUATION WANTED—By young man 21 years old in flower or seed store. Four years' experience as assistant in greenhouses. Address W H M, care American Florist.

SITUATION WANTED—By thoroughly practical gardener (English). Private establishment preferred. Wages $15 per week; 12 years; character. Address ENGLISH, care Am. Florist.

SITUATON WANTED—By a married man, German, 14 years' experience in growing cut flowers, general bedding and greenhouse stock, and nursery work. Sober and reliable. At liberty by 1st of April. Address W D, care American Florist.

SITUATION WANTED—By German gardener, age 29, on commercial or private place; 15 year's experience; married; first-class designer and decorator; best references. Address E. T. SCHROEDER, 1804 N. Marshfield ave. Chicago.

SITUATION WANTED—As working foreman in medium-size place or to take charge of section of houses; 14 years' experience growing roses, carnations, 'mums and general stock; Al propagator. Best of references as to ability of growing first-class stock. Address AMERICAN, care American Florist.

SITUATION WANTED—As foreman by a thoroughly competent German florist; understands growing roses, carnations, 'mums, palms, ferns, orchids and general stock; designer and decorator; 8 years experience in America; 31 years of age, married. First-class German and American references. Address stating terms P G, care American Florist.

SITUATION WANTED—As foreman on large place where Beauties are wanted first-class; 12 years experience; married, age 36, one child. Also steam and hot water engineer and greenhouse constructor, also good designer and truck gardener. If any one is in need of such a man, strictly sober and honest please state wages. Address W G, care American Florist.

WANTED—Salesmen to sell flower pots as a side line on commission. CAMBRIDGE TILE M'F'G CO., Covington, Ky.

WANTED—A man for general greenhouse work. With some experience and able to fire steam boilers; $9 a week. Address with references WM. KIRKHAM, Maywood, Ill.

WANTED—First-class rose and carnation grower to take charge of six houses; must be single. State lowest wages with board, and age. Address JOHN L. WYLAND, De Haven, Pa.

WANTED AT ONCE—A good all-round florist, one who knows how and is willing to work. State lowest wages with board and lodging. W. H. WRIGHT, 204 1st East St., Vicksburg, Miss

WANTED—February 1, good steady man who thoroughly understands handling hose and general greenhouse work; must know how to water. State wages expected. Address C. H. FREY, 1131 O St., Lincoln, Neb.

FOR SALE—Five greenhouses, five building lots and barn, 25 miles from New York in growing city. Good retail and wholesale stand; cheap. E L, care Am. Florist.

FOR SALE—Good chance for man or partners with cash. Eleven years' business in live western city of 10,000; railway division; good shipping trade; no opposition. WESTERNER, care Am. Florist.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

FOR SALE OR LEASE—Greenhouse 20x100 well stocked, Hitching's boiler. Ground to suit purchaser near two cemeteries in good location, good market for all that can be raised. Address WM. KALL, Park Ave. and Dean St., E. E., Pittsburg.

FOR SALE VERY CHEAP—A fine greenhouse establishment of 10 000 sq. feet of glass in a booming city of 18 000. Very little competition. Everything in fine condition. A well paying investment. Good reasons for selling. Address BARGAIN, care American Florist.

For Rent Or Sale.

Six greenhouses, 15,000 feet of glass, well stocked with Carnations, Violets and Bedding Plants; houses heated with hot water and steam in best condition. Can have either one or 5 acres of ground. Best location around Detroit, one mile from the city, opposite the Woodmere Cemetery entrance. Too much business on hand, and may have it on partnership.

Apply to **Anton Kaier, Woodmere, Mich.**

FOR SALE.

A twenty-year establishment of five new greenhouses, containing 7 000 feet of glass; heated by hot water (three boilers); growing roses, carnations and assortment; all in excellent condition; a good dwelling house with 12 rooms and a furnace; a wind-mill; city water; have the use of both the electric light and gas; inside of corporation; 3 blocks from the court house and business houses; no competition for 50 miles around; 14 acres of as good land as there is anywhere; all in small fruit; a barn, 40x20, and all necessary buildings; all in the best shape; can give possession any time; cost $15,000; pay $3,000 down, the rest can stay longer if wanted.

For further information write to

N. P. COLBERG, Princeton, Ill.

We like to have you tell our advertisers that you read our paper.

Nashville, Tenn.

All kinds of flowers are beginning to be plentiful again. Brides and Bridesmaids are fine in color and size and American Beauties are fair. Violets continue scarce but are coming in more plentifully. Azaleas are coming in rapidly and meet with a ready sale. There is good demand also for other blooming pot plants.

Church street, of our city, could well be called Florists' Row, as all the leading stores are on that thoroughfare.

M. C. DORRIS.

MARTINSVILLE, IND.—H. R. Winn has sold his establishment to R. S. Barrett, a local capitalist, who proposes to place a competent man in charge and greatly enlarge the plant.

PAWTUCKET, R. I.—Mr. and Mrs. A. L. Warner arrived home on January 9 after a five months' visit to their daughter in Pueblo, Cal. The steamer Lampasses on which they came from Key West was obliged to return, when about 200 miles from that port, owing to a fire in the cotton which formed a large part of the cargo, and the boat had a narrow escape from total destruction.

SPRINGFIELD, MASS.—The directors of the Hampden County Horticultural Society met last evening in the board of trade rooms and arranged the schedule of premiums for the rose and sweet pea shows next summer. It was decided to hold the rose show on June 20 and 21 and the sweet pea show on July 18 and 19. The fall exhibition of flowers, fruits and vegetables will be held September 19 and 20.

Wholesale Flower Markets

CINCINNATI, Jan. 19

Roses, Beauties, select	40 00@50.00
" " medium	15 00@25 00
" Brides, Bridesmaids	4 00@ 6.00
" Meteors	5 00@ 8.00
" Perles	4 00
Carnations	2 00@ 3 00
Violets	.75@ 1 00
Lily of the valley	4.00
Smilax	12.50
Adiantum	1.00
Asparagus	50.00
Romans	2.00@ 3.00
Narcissi	3 00
Harrisi	12.50
Callas	10 00

ST. LOUIS, Jan. 19.

Roses, Beauties	4 00@50 00
" Brides, Bridesmaids, Meteors	2.00@10.00
" Perles	2.00@ 6.00
Carnations	1 50@ 4.00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Violets, Calfornia	60
" single	.25
" double	.75
Roman hyacinths	3 00
Narcissi, Paper White	3.00
Callas	12 50
Harrisii	15 00
Valley	4.00

MILWAUKEE, Jan. 19.

Roses, Beauties, long.... per doz.	5.00@ 6 00
" " medium " "	2 00@ 3.00
" " short " "	1.00@ 1 50
" Brides, Bridesmaids	6 00@ 8.00
" Perles	4 00@ 6.00
" Meteors	6.00@ 8.00
" Kaiserins	6 00@ 8.00
Carnations, fancy	2 00@ 5.00
" good stock	1 00@ 1 50
Smilax	12.50@15 00
Adiantum	1 50
Asparagus	75.00
Violets	.50@ 1.00
Callas	15.00@20 00
Harrisii	15 00@20.00
Romans, Paper Whites	3.00
Freesias	3.00

PITTSBURG, Jan. 19.

Roses, Beauties	12.00@50 00
" Brides, Bridesmaids	4.00@12.00
" Meteors	6.00@15.00
" Kaiserins	6 00@15.00
" Niphetos, Perles	3.00@ 6.00
Carnations, short stems	1.00@ 1 25
" long "	1 50@ 3.00
Violets	.75@ 2 50
Lily of the valley	4 00
Smilax	12 50@15 00
Adiantum	1.00
Asparagus	50.00
Hyacinths, Paper Whites	2.00@ 4.00
Harrisii per dozen	1.50@2.00

Carnation Blooms

CHICAGO CARNATION CO.

Growers of Strictly Fancy Carnations Only.

HEREWITH FIND PRICES ON THE FINEST HIGH-GRADE BLOOMS IN THE MARKET OF THE ANNEXED VARIETIES. HIGHEST PRICES QUOTED ARE FOR BLOOMS EQUAL TO ANY EXHIBITION STOCK. WE CAN SUPPLY SAME IN ANY QUANTITY. SHIPMENTS MADE DIRECT FROM GREEHOUSES TO ALL POINTS.

GOLD NUGGET, yellow	5 to 6 cts. each
MRS. GEO. M. BRADT, variegated	5 to 6 "
MRS. JAS. OEAN, light pink	4 to 6 "
ARGYLE, dark pink	3 to 4 "
MRS. FRANCES JOOST, pink	2 to 3 "
FLORA HILL, white	2 to 3 "
EVELINA, white	1½ to 3 "
NEW YORK, dark pink	4 to 5 "
BON TON, scarlet	4 to 5 "
JNO. YOUNG, white	4 to 5 "
JUBILEE, scarlet	3 to 5 "
VICTOR, pink	2 to 3 "
ARMAZINOY, variegated	3 to 4 "
DAYBREAK, light pink	2

GREENHOUSES AND ADDRESS, JOLIET, ILL.

WESTERN PENNA. HEADQUARTERS FOR EXTRA FANCY STOCK.

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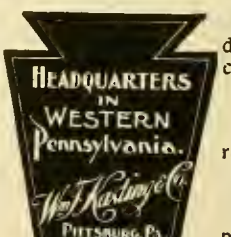
We do not expect you to believe all you see in print, but give us a trial order of **ROSES and CARNATIONS, Etc.** and we will prove our assertions, which are that we can fill any order at any time and at the right price. We know how to pack and always use this knowledge so that you get the benefit of good flowers and good packing for the same, and most always less money than elsewhere.

A full line of Florists' Supplies always on hand. Try our WIRE WORK.

HOLTON & HUNKEL CO., P. O. Box 103, Milwaukee, Wis.



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All kinds of Florists Supplies & Wire Designs on hand.
Consignments of good stock solicited.

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Size 4¾x6 inches, printed in red on gummed paper with leaf adopted by the S. A. F. Price with your card, 500, $2.85; 1000, $4.50. Samples free.

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This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs.....

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WE have made arrangements with one of the largest Eastern growers to handle his cut and shall be in a position at all times to supply your wants.

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Cattleyas & Cypripediums A Specialty.

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...PRICE LIST...

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AMERICAN BEAUTY		
Extra long stem	per doz.,	$6.00
24-in. stem	"	4.00 to $5.00
20 "	"	3.00
15 "	"	2.00
12 "	"	1.50
8 "	"	1.00
METEOR	per 100,	6.00 to 8.00
BRIDESMAID	"	6.00 to 8.00
BRIDE	"	6.00 to 8.00
PERLE	"	5.00 to 6.00
CARNATIONS	"	2.00
" fancy	"	3.00
ROMANS	"	2.00 to 3.00

All other stock at lowest market prices. No charge for packing.

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J. A. BUDLONG,

andolph Street. CHICAGO, ILL.

Wholesale Flower Markets

CHICAGO, Jan. 20.

Roses, Beauties, extra long, per doz		6 00
" " 24 inch	" "	4 00@5 00
" " 20 "	" "	3.00
" " 15 "	" "	2.00
" " 12 "	" "	1 50
" " 8 "	" "	1.00
" Brides		6.00@ 8.00
" Bridesmaids		6.00@ 8.00
" Perles		5.00@ 6.00
" Meteors		6.00@ 8.00
Carnations		1.50@ 2.00
" fancy		3.00
Lily of the valley		4.00@ 5.00
Adiantum		.75@ 1.00
Common ferns		.20
Smilax		12.00
Asparagus		50.00@100.00
Violets		75@ 1.00
Romans		2.00@ 4 00
Paper Whites		3.00@ 4 00
Callas		15.00@20.00
Harrisii		15.00@20.00
Bouvardias		1.00@ 2.00
Mignonette		3.00

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CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

Wholesale Flower Markets

PHILADELPHIA, Jan. 18.

Roses, Teas	8.00@10.00
" extra	12.00
" Beauties, extra per doz	9 00
" " firsts "	4 00@6 00
" " seconds "	2.00@3.00
Carnations	1.50@ 5.00
Lily of the valley	4.00@ 6 00
Asparagus plumosus	50.00
" Sprengerii sprays	1.50@ 5.00
Smilax	15.00@20.00
Violets, double	.50@ 1.50
Narcissi, Roman Hyacinths	4 00
Adiantum	1 00
Mignonette	2.00@ 6.00

BOSTON, Jan. 18.

Roses, Beauties, best	35.00@60.00
" " medium	15 00@25 00
" " culls	5.00@10.00
" Meteors	6.00@12 00
" Brides, Bridesmaids	6 00@12.00
Carnations, ordinary	1.00@ 2 00
" fancy	3 00
Lily of the valley	3.00@ 4.00
Violets	.50@ .75
Mignonette	2.00@ 4.00
Callas, Harrisii	12 00@15 00
Cattleyas	40 00@50 00
Tulips	1.00@ 3 00
Romans, Narcissi	1 50@ 2.00
Smilax	10.00@12.00
Asparagus	50.00
Adiantum	.50@ 1.00

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" " culls	2.00@ 5.00
" Bridesmaids, Brides	4.00@12.00
" Meteors	6.00@12.00
" Morgans, Perles	4.00@ 6.00
Carnations	1.00@ 2.00
" fancy	2.00@ 4.00
Violets	50@ .75
Lily of the valley	2.00@ 3.00
Roman Hyacinths, Narcissi	1.00@ 1.50
Harrisii	10.00@12.00
Mignonette	2.00@ 8.00
Cattleyas	35.00@40.00
Cypripediums	6.00@ 8.00
Tulips	1.00@ 3.00
Smilax	10.00@15.00
Asparagus	40.00@50.00
Adiantum	.50@ 1.00

BUFFALO, Jan. 19.

Roses, Beauties	5.00@60.00
" Brides, Bridesmaids, Meteors	4.00@10.00
" Perles, Niphetos	2.00@ 6.00
" Kaiserins	5.00@10.00
Carnations, ordinary	1.00@ 2.00
" fancies	3.00@ 4.00
Lily of the valley	4.00@ 5.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	.50@ 1.50
Romans, Paper White	1.00@ 4.00
Harrisii	20.00@25.00
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AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

JAMES SPROULE, formerly manager of the Sunset Seed and Plant Company, San Francisco, is again with the Southern Pacific Railroad.

THE Secretary of Agriculture has sent his annual notice to congressmen that some 6,000 packages of seeds are at the disposal of each.

ONE of the last acts of Governor Budd, of California, before retiring from office, was the appointment of W. H. Metson, the seed grower, as one of the Golden Gate Park commissioners.

GEORGE W. P. JERRARD, Caribou, Me., has sold the seed business bearing his name to Haines S. Hardison and Parker L. Hardison, of Caribou, and L. E. Tuttle, of Washburn.

SAN FRANCISCO.—Good rains encourage the growers, who began to fear another year of drought. Onions are mostly planted and other stock will soon be in. The rain has greatly benefited all crops.

HAYES & CRITTENDEN, New Haven, Conn., have dissolved partnership, Charles A. Crittenden retiring. The seed business of the concern, at 100 Broadway, will be continued by Edwin A. Hayes.

F. A. STECHER, the well-known Rochester lithographer, passed through Chicago on the 20th enroute to Japan. Besides the pleasure of the spring trip there Mr. Stecher has in view to establish a lithographic plant in that country.

No Duty on Seeds for Cape Colony.

ED. AM. FLORIST:—Please give tariff on seeds and bulbs exported to Cape Colony, South Africa, and oblige. SEEDSMAN.

[Seeds, bulbs, plants and tubers for planting or sowing only, under such regulations as regards edible kinds as the customs authorities may impose to safeguard the revenue against diversion into ordinary consumption, are admitted free of duty.—ED.]

American Seed Trade Association.

The executive committee of the American Seed Trade Association met at the Park Avenue Hotel, New York, on January 17. There were present President E. B. Clark, of Milford, Conn.; Secretary S. F. Willard, Wethersfield, Conn.; A. N. Clark, Milford, Conn.; I. B. Clark, Buffalo, N. Y.; Wm. Meggatt, Wethersfield, Conn.; W. Grinnell, Pierpont Manor, N. Y.; Jerome B. Rice, Cambridge, N. Y.; Albert McCullough, Cincinnati, O.; W. Atlee Burpee, Philadelphia, Pa., and A. L. Don, C. L. Allen, E. V. Hallock and M. H. Duryea, of New York. Cincinnati was selected as the location for the next annual meeting of the association, which will be held on the second Tuesday in June. A communication was received from the secretary of the Society of American Florists suggesting co-operation of the various national organizations with a view to securing if possible the appointment of one member to represent the horticultural interests on the Paris Exposition Commission. The suggestion was regarded with favor, but action was deferred pending its consideration by the S. A. F. The outlines of the programme for the June meeting comprised the only other business of importance transacted. The evening was passed pleasantly by most of the members of the committee at the theatre and the price of beans furnished a fruitful theme of conversation between the acts.

Cincinnati.

DISPLAY OF VERY FINE VIOLETS.—CLARA BARTON IS IN FAVOR EVERYWHERE.—YOUNG AMERICA MISSED CONNECTIONS.—CLUB MEETING.—ELECTION POSTPONED.—PERSONAL JOTTINGS.

The violet show of January 14 was not as large as former exhibits, but what was lacking in quantity was more than made up in quality. Corbett & Wilson, of College Hill, captured both prizes of $5 for best 100 single and double blooms. Their vase of Marie Louise was a revelation, the flowers very large and of good color. The vase of 100 Princess de Gales was the grandest ever shown here.

R. Witterstaetter had a vase of seedling carnations on exhibition which was a center of attraction in the hall—people simply went wild over them. George & Allen made the best display of roses and miscellaneous cut flowers. The Hoffmeister Floral Company had on exhibition a vase of their new rose, Miss Clara Barton, which was awarded a special certificate by the society. This is becoming a favorite among the craft and judging from the orders already booked will be grown extensively around this city.

A box of the new carnation, Young America, from T. J. Totten, Saratoga Springs, N. Y., came a day too late to be exhibited, but the flowers arrived in good shape. The color is similar to Tidal Wave; stems very strong and flowers large and well formed.

In the evening of January 14 the annual meeting of the Cincinnati Florists' Society was held. The election of officers was to have occurred, but owing to the fact that the number of members required for this purpose were not present it was deferred until the meeting in February. After a short business session a social hour was enjoyed and a toothsome buffet lunch was served.

Frank Ball, of the Cincinnati Cut Flower Company, took a flying trip through the northern part of the state last week.

Albert McCullough has been east the past week on a business and pleasure trip.

John Evans, the Quaker City ventilator man, was an interested visitor at the violet show.

I am glad to report that quite a delegation from here will attend the annual carnation meeting at Philadelphia.

Mrs. Harry Sunderbruch was quietly married January 12. Her many friends will learn of this with surprise.

H. SCHWARZ.

St. Paul.

MEETING OF THE MINNESOTA FLORISTS.—MR. HIERSEKORN'S VALUABLE PAPER.—ANDERSON RE-EMBARKS IN STORE KEEPING.

The regular meeting of the Society of Minnesota Florists was held at the West hotel, Minneapolis, on Saturday evening, January 14. There was a large attendance, over thirty members being present. Mr. Hiersekorn, of St Paul, presented a paper on decorating and how to successfully conduct a store, which showed careful preparation and presented some very helpful hints on management. Incidentally he scored the commission men for maintaining high prices at the holidays, thus reducing the retailer's profits. As a preventative he advocated the growing of more decorative stock and less bedding plants by our home growers. Mr. Swanson, of the legislative committee, reported on the progress made and solicited funds from the growers to help the matter along.

Chas. Anderson has started a store at his old stand, 179 Western avenue, in the best residence district.

Dr. Schiffmann has employed an orchid grower from the east to look after his plants. FELIX.

SO. PORTLAND, ME.—John Minot is very dangerously ill.

ROCKLAND, ME.—J. H. Willson has purchased the store of A. W. Cunningham on Park street.

SALINA, KANS.—John Buchi reports Christmas and New Year trade twenty per cent better than before.

GRAND RAPIDS, MICH.—Miss Etta Allen has removed her flower stand from Sweet's hotel to 103 Monroe street.

DES MOINES.—J. T. Temple, of Davenport, grand patriarch of the Patriarch Militant, was in town January 17 and visited a few of the florists in company with President Lambert and Secretary Fulmer of the club.

Not Talk But Work

Printed talk or spoken talk would never have built up the immense **Iron Age** business. It's the work that's behind the machines and the excellent work they do in the field and garden that sells them in increasing numbers every year. Our success is built on work—not talk. See an **Iron Age** machine at work and it will talk for itself. It does the best work in the least time. The latest

Iron Age Implements

are described in the handsome **Iron Age Book** for 1899 which we send free. The **Iron Age Combined Wheel Hoe and Seed Drill** will plow, level, furrow, sow, cover, rake, cultivate, hill and hoe and do all well. A boy can convert it from drill to hoe. Wheels are of steel, 16 inches high, an original feature. The height makes the wheels run easier and they will not yield to depressions in the soil like low wheels. The high wheel is an **Iron Age** idea which has come to stay.

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TRUE EXCELSIOR PEARL, dwarf, first-class, strong bulbs, Telegraphic word "Modern" per 100 $1.00; per 1000 $7.50; 2000 for $14.50.

TRUE EXCELSIOR PEARL, dwarf, medium, excellent mailing size, Telegraphic word "Militia" per 100 75c; per 1000 $5.00; 2000 $9.00.

TALL DOUBLE, first-class, strong, Telegraphic word "Malvern" per 100 $1.10; per 1000 $8.00.

Prices quoted are for immediate order. We will book you now and make delivery up to February 15th

	Per 100.		Per 100
LILIUM Auratum.....7- 9-in.,	$4.00	*SPIRAEA Japonica*.....	$4.00
" " 9-11-in.,	6 50	*LILY OF THE VALLEY, "Premium" Brand*.....	per 1000, 12.00
" " 11-13-in.,	10.00	*DIELYTRA SPECTABILIS,* per 100,	9.00
" *Speciosum Album,* 7- 9 in.,	5 00		
" " " 9-11 in.,	6 25		
" " *Rubrum,* 7- 9 in.,	3 75		
" " " 9-11 in.,	5.50		

Write for Prices on Quantities above.

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HALF TONES
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THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

GILBERT COSTRICH purchased the Charles Little nursery stock and personal property at sheriff's sale.

THE Western Nursery Company, C. W. Murphy, manager, at Lawrence, Kansas, is building up a nice trade.

W. M. PETERS' SONS, Wesley, Md., are selling out a few million strawberry plants, shrubs and trees to clear the land.

PLEASANT HILL, MO.—The weather here is fair and bright; no frost in the ground and we are plowing. G. M. K.

THE new Dempsey pear produced from seed of Bartlett fertilized with Duchesse d' Angonleme, is meeting with much praise. The stock is owned in Toronto.

BAY CITY, MICH.—Boehringer Bros., who have more than 12,000 feet of glass, are testing several hundred sugar beet seeds raised by N. B. Bradley.

The Clematis Disease.

Recent issues of *Moller' Deutsche Gartner Zeitung* contain a very interesting report on the clematis disease. Observation made on varieties of the Florida and lanuginosa types seems to prove that the plague must not be attributed to insects or fungi and that these pests first attack the plants after they have become weak through other causes.

Messrs. Goos & Koenemann, Germany, give their experience as follows: The large fleshy roots of the clematis have the power of absorbing large quantities of moisture. After heavy rains greater amounts of water are sent into the woody parts than they are able to take, thereby bursting the cells in such parts where the pressure becomes too great. Food distribution to the upper parts is sometimes continued for a short period, until the next outburst, when whole runners suddenly die off. If we look to the natural home of C. vitalba and C. viticella it will be found on sloping land or among roots of large trees where ample drainage is provided, and if we give our clematis good drainage and rich soil to produce strong runners that will be able to take care of any overproduction of sap, then there will be no cause for further trouble from this dreaded disease.

Mr. Joh. Nicolai, Caswig, Saxony, gives the following as his observation: My belief in regard to the sudden dying off of plants mostly belonging to the Florida and lanuginosa types is that this disease is caused by injury from frost. Nearly every clematis commences its growing period in early spring, when frosts are of not unusual occurrence. In nearly all instances they are not killed outright, except by very severe frosts, but those affected will show their injury later on. The clematis has stowed away in its fleshy roots great quantities of food for use in the spring that is put into circulation at a very low temperature. Then comes the rapid growth which necessitates a large circulation of sap. The injury that has been caused by frost is first shown when the reserve food is exhausted and new food must be absorbed from the soil through the agency of the roots. At this point, which is usually found in the wood-building period, there is a sudden lack of nourishment, resulting in the dying off of whole branches, often in a day's time. It is also presumed that sap destroyed and transformed by the action of frost acts as a poison. Other causes can be found in unripe and weak wood, open and cold situation and especially in wet and poorly drained ground. Clematis planted in my rose houses or in well sheltered places has never been troubled with disease.

Edwin Urlandt, Austria, has noticed that among a number of clematis troubled with the disease one had been planted close to a grape vine where it often received a wash and also an occasional watering with thick lime water, which seemingly gave the clematis new life and vigor. To the varieties especially subject to the die-back, Lord Mayo, Bilisaire, Fair Rosamond, Henryii and Otto Froebel, the new remedy was applied. The plants soon revived and as a stimulant to the quite weak plants liquid manure was administered and the disease has never shown itself again.

C. A. Meyer, Kiew, Russia, notes that too rich food or too much water is the cause of clematis dying back, especially when, after a period of dry weather, several rainy days follow, thus dissolving a large amount of food, which would be detrimental to the plants.

Prof. Dr. P. Soraner, Berlin, announces, after studying the disease, that insects or fungi are not the direct cause. Plants brought to him have sometimes shown injury from frost but he states that too much nourishment, water, and at certain times heat, are the causes of the clematis disease and recommends well drained land, not too rich soil and partial shade as the proper remedy. He has come to this conclusion after having planted diseased plants under a birch tree, the soil being of a rich loam and having previously been prepared with a liberal amount of sand. The plants thus treated were never again troubled with the disease.

Humboldt park, Chicago, possesses some grand specimens of Clematis Jackmanii that are between eighteen and twenty years old. When I took charge of the park, three years ago, a few of them were badly troubled with the disease, for which I knew no remedy. Changes in the flower garden necessitated their being transplanted and after this they have never been troubled. Now, if the transplanting was the remedy or the change to a dryer situation, I do not know. Two years ago I bought a lot of plants belonging to the class that are troubled with the die-back. These were planted in a northern exposure, and of the whole lot only two plants are left—The Queen. Did the frost kill them? For winter protection we use ashes, applied after the ground is frozen solid, and as cold increases litter or long manure is put over the ashes. A good protection for late frost in spring is straw matting. This can be put over the plants at night and removed during the day.

JAMES JENSEN.

OMAHA, NEB.—A. Donaghue, Sr., the dean of the profession here, has gone to California to spend the winter.

TOLEDO, O.—The park board has let contracts for the new greenhouses. They are not to cost to exceed $12,700.

WHITE PLAINS, N. Y.—Doyle Bros., of Katonah, who have conducted a retail store on Railroad street, have decided to remove to smaller quarters.

CHARLESTON, S. C.—Wulbern & McIntosh combine fire works with their florist business and found a splendid sale for both of their commodities at Christmas.

LENOX, MASS.—On Saturday, January 7, W. A. Manda gave an excellent and instructive address on hybridization which brought together a very large meeting of the Lenox Horticultural Society. A lively discussion followed, many interesting facts being brought out.



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Also Latania Borbonica	.30	2.50	10.00
	pkt.	oz.	lb.
Grevillea Robusta . . crop '98,	$.15	.40	
Freesia refracta alba "	.10	.20	1.10
Smilax Seed "	.15	.40	3.00
Cyclamen Giganteum "	100 seeds	1000 seeds	
choicest English strain	$.65	$5.00	

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These prices *include throughout* cost of Delivery by *express or mail.*

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GERANIUMS.

Fine rooted cuttings, mixed, from soil	$12 per 1000
2½-inch, mixed	25 per 1000
" " S. A. Nutt, La Favorite, etc.	25 per 1000
Mme. Salleroi, 2¼-inch	20 per 1000
COLEUS, fine, from soil	1 per 100

Cash please. CARL HAGENBURGER, W. Mentor, O.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

New York Challenges Flatbush.

The New York Florists' Bowling Club met on Monday evening and in the enthusiasm born of a good attendance and high line scores, issued a challenge to the Flatbush Florists' Bowling Club to meet them on the New York alleys on the afternoon of Monday, February 13. Lovers of good sport would better be on deck that day.

The Start at Minneapolis.

At the first meeting of the bowlers in Minneapolis the following scores were made and are not bad for the start; they will improve each week:

Name.	1st.	2d.	3d.	4th.	5th.	Ave.
Gust. Malmquist	131	96	123	144	127	124
E. Nagel	143	100	122	144	106	123
Gust. Will	97	112	91	105	104	102
Ed. Swahn		84	112	93	113	101
Otto Will	73	60	141	98		93
J. Hartman	79	101	97			92
R. J. S. Wessling		90	75	103		89
G. Monson	98	76	80	97	90	88
Carlson	70	64	74	122	108	88
Aug. S. Swanson		91	80	68		80

Good Scores at Detroit.

The convention city bowlers may be planning to extend their guests a warm welcome next August and they certainly are preparing to give the bowling contingents a hot time. At the rate of improvement which the players are showing in their practice games they will, by convention time, be able to put an all-star team in the field. Last week's score:

Name.	1st.	2d.	3d.	Av.
Holznagle	158	189	144	164
Ferguson	150	179	119	149
Watson	132	139	157	143
Dunn	127	144	132	134
Dilger	178	127	117	131
Beard	111	123	144	126

R. F.

The Chicago Medal Contest.

The first four games of a series of twenty-four medal contests were rolled at the Chicago Florists' Bowling Club on Friday evening, January 13, and Geo. Asmus, a new recruit of great promise, made both the high score, 186, and best average. The next series will be played on January 27. Here are the figures of the first night's play:

Name.	1st.	2d.	3d.	4th.	Av.
Geo. Asmus	162	161	186	132	160
G. L. Grant	168	155	128	117	142
John Zech	140	142			141
Fred. Stollery	130	139	146	143	139
Chas. Balluff	109	129	143	134	128
Geo. Stollery	123	104	164	116	126
A. Lange		128	114	136	126
J. S. Wilson	129	101	102	171	125
E. F. Winterson	105	113	120	143	120
C. W. McKellar	125	117	126	95	115
John Degnan	126	113	109	104	113
James Hartshorne	125	109	110	104	112
H. C. Rowe	110	92	123	121	111
P. J. Hauswirth	105	130	97	98	107
Alex. Henderson	105	98	97	116	104
Walter Kreitling	85	89	98	125	99

ROCHESTER, MINN.—Arthur Williams has purchased the establishment of Mrs. J. Hyde.

WOONSOCKET, R. I.—William O'Connor, of the O'Connor Brothers, of Providence, was a recent visitor here.

Chicago.

A GOOD WEEK.—WHOLESALERS HUNTING FOR STOCK.—HEAVY CALL FOR FUNERAL FLOWERS.—ROSES VERY SHORT.—CARNATIONS OF GOOD QUALITY AND SELLING WELL.—VIOLETS TOO PLENTIFUL.—HORTICULTURAL SOCIETY'S ANNUAL MEETING. — OFFICERS RE-ELECTED. — RUDD GETS A RING.—DEATH OF E. J. PRINCE.—SOME BIG BUILDING OPERATIONS IN SIGHT. —COMMENT.

This has been a good week in Chicago and night after night the wholesalers have had nothing but ice left in their cold rooms. White stock has been in great demand because of the unusual altitude of the death rate and other flowers have in a measure felt the stimulus of the increase in mortuary work. There has not been stock enough to supply the demand and dozens of cases have occurred which presented the distressing necessity of replying to telegraphic orders that the blooms were not to be obtained in Chicago.

Roses have been particularly scarce. The shortage began to manifest itself immediately after the holidays and has grown more acute each day until the dark days early in this week saw what approached a famine. Of course prices are stiff, particularly on good stock, but as one grower lamented, "whenever a fellow has a chance to make a dollar he hasn't got the stock to do it with."

Carnations have been much more plentiful than roses but none have been left unsold and the whites have been far short. There have been some very fine blooms on the market and 4 cents has been a common price. It is conceded that, although there may be but few more roses this year than last, there is a far greater production of carnations and they have thus far in the season been a very profitable crop.

Violets are the only line that has been overstocked recently and it has only been the best of these which have brought $1 a hundred. Harrisii, callas, tulips, daffodils, Romans, narcissi and lily of the valley have been in ample supply but have not suffered when well grown.

At its annual meeting, January 14, the Chicago Horticultural Society re-elected its former officers: President, W. H. Chadwick; first vice-president, E. G. Uihlein; second vice-president, Harry Selfridge; third vice-president, E. Wienhoeber; secretary, W. C. Egan; W. N. Rudd treasurer and assistant secretary. The directors and executive committee members were also re-elected. The treasurer's report showed expenditures for the year of $6,921.57 and a balance on hand of $1,309.09. The deficit of the fall show was $1,028.01. As an expression of appreciation of his services to the society W. N. Rudd was presented with a diamond ring, E. G. Uihlein making the address, to which the recipient responded, simply: "When I see this beautiful ornament on my finger, it will recall the many years of my pleasant association with this society." The project of securing the Auditorium for next fall's show was discussed and the executive committee was authorized to hold a spring exhibit next year if their judgment so dictated.

A. G. Prince was summoned to South Randolph, Vt., January 13, by the death of his father, E. J. Prince, who, at the age of 77 years, had succumbed to an attack of the grip. Mr. Prince, Sr., had, until a few months ago, made his home with his sons here. A large family of boys survive him. A. G. Prince expects to remain in the east for about three weeks.

Ambrose Martell, a nurseryman from Peoria, Ill., has been a visitor here this week and was given lodgings at the Harrison street police station because of actions which led Manager Cobb, of the Leland hotel, and the police to doubt his sanity. He had $2,232 in his pocket.

The Risch-Wieland Floral Company at South Evanston is preparing to erect nine houses each 25x150 for roses and carnations. The range will be thoroughly modern throughout and will be equipped with Evans' Challenge Ventilator.

Contrary to the experience of the South Park Floral Company at New Castle, Ind., Wietor Brothers find that so splendidly are their carnation houses paying them that they are more profitable than an average rose house.

Archie Spencer, manager for Reinberg Bros., welcomed a baby daughter into his home on Wednesday evening.

The Art Floral Company, H. & R. Hilmers, 3911 Cottage Grove, are showing some azaleas which would serve as a pattern for most growers.

The site of the great Manufactures building of the World's Fair is to be filled in and made into tennis courts this spring.

The Chicago Florists' Club held a well attended business session last evening.

Out at Evanston A. E. Hunt, 2123 Ashland avenue, is erecting two greenhouses at an expense of $1200.

Visitors in town: Geo. A. Kuhl, Pekin, Ill.; W. C. Hill, Streater, Ill.; F. Ostertag, St. Louis, Mo.; John A. Evans, Richmond, Ind.; A. B. Silliman, Ardmore, I. T.; Ernst J. Asmus, West Hoboken; Paul Dailledouze, Flatbush; T. C. Joy, Nashville.

San Francisco.

TRADE IS BRISK AND GOOD ROSES ARE IN GREAT DEMAND. — AMERICAN BEAUTY IS PARTICULARLY SHORT. — VIOLETS INJURED BY DROUGHT AND ARE SCARCE. —CARNATIONS ARE POPULAR.—PERSONAL DOINGS OF INTEREST.

Trade is still good in this city, and likely to continue so. Roses are very short and are bringing very fair prices. Beauties, particularly, are scarce and in much demand. Brides and Bridesmaids continue to sell for about $1 per dozen wholesale, and Kaiserins, Perles and Meteors are about the same, as also is Testout. Violets have never been at such a premium as they are this season. The doubles did not seem to suffer as much from the drought as the singles, but are of very poor quality. They are now selling for $2.50 per dozen bunches and continue scarce. Carnations are another scarce article. They readily brought $4 per 100 during the holidays, but with the exception of Flora Hill are now down to $3 per 100. Portia and Scott are about the only available sorts at present. Some Mayor Pingree and Mrs. Bradt are to be had, but the quantity is very limited.

Harry C. Sim is here in the interest of Henry A. Dreer, of Philadelphia.

Jos. Carbone, manager of the Puget Sound Nursery and Seed Company, is here on a business trip. He reports trade as booming in the northwest, and says prospects are fine for a good season's trade.

A. B. Westland is now head gardener to Prince Piontioski at Burlingame.

A. Thompson is now with M. Lynch at Menlo Park.

Tony Rossi is not only an artistic designer and decorator, but has developed into a well known foot ball player.

Thomas Thompson, of Santa Cruz, was up a few days ago showing us some of his carnations. He is growing the new sorts to perfection. METEOR.

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Toronto.

TRADE IS GOOD AND FLOWERS FAIR.—MEETINGS OF THE HORTICULTURAL SOCIETY.—BRIGHT PROSPECTS FOR THE NEW YEAR.—TESTIMONIAL FOR MILLS AND MANTON.—OFFICERS ELECTED.

Although the florists are feeling the usual rebound after the holiday rush, yet trade continues fairly good. We have had more than our usual quantity of dull weather for this season of the year but the flowers are of good quality and plentiful.

The last monthly meeting of the Toronto Horticultural Society for the season was held on January 10, and the meeting was the liveliest and most jovial one of the year. The annual meeting was held the following evening and was fairly well attended. The secretary's report was considered a satisfactory one as it showed a much larger sum received than during 1897, and a larger balance was carried forward for the new year. The president's and directors' report stated that the meetings for the year had been well attended, a number of instructive and interesting essays had been delivered and some very good collections of plants and flowers shown. Although the society started with a much smaller number of subscribers for 1899 than in the previous years of its existence it was considered that the prospects were good for an increased membership later on. Great praise was given, and deservedly so, to Messrs. Mills and Manton for their exertions in connection with the distribution of chrysanthemum plants among the school children, who, for a first attempt, had been very successful in growing them. It was decided (although much against the expressed wishes of both gentlemen) that a sum of money should be set aside to purchase a testimonial for Messrs. Manton and Mills.

The following officers were elected for 1899: President, Henry Lucas; first vice-president, E. E. Tyrrell; second vice president, Thomas McQueen; directors, Dr. Orr, Geo. D. Manton, Arthur G. Chambers, Ernest F. Collins, J. McP. Ross, Geo. H. Mills, Edwin Utley, Hermann Simmers and Geo. R. Copping; auditors, W. H. Hall and T. F. Hire; secretary, Chas. E. Chambers; representatives on industrial exhibition board, Dr. J. Orr and Hermann Simmers. S. P.

Lincoln, Neb.

The Nebraska State Horticultural Society was in session here last week and the florists of the state took a leading part in all that transpired.

F. C. Chapin, of Lincoln, opened the programme of discussions with an excellent paper on floriculture at the Trans-Mississippi Exposition and was followed by Louis Henderson, of Omaha, with an original poem. Flowers, Palms and Ferns was the topic discussed by W. J. Hesser, of Plattsmouth, and J. F. Wilcox, of Council Bluffs, Iowa, who is a Nebraskan to all intents and purposes, read a short but interesting paper entitled Practical Floriculture.

J. H. Hadkinson, G. N. Titus and W. J. Hesser were appointed a committee to revise the recommended lists of hardy shrubs and roses.

SPRINGFIELD, Mass.—Charles R. Miller has severed his connection with the Chapell-Miller Company, which will hereafter be conducted by Mr. Chapell, with Arthur Knox, formerly with Mark Aiken, in charge of the store.

BOBBINK & ATKINS,
Rutherford, N. J.
REPRESENTATIVES WHOLESALE GROWERS FROM EUROPE.
Specialties for This Spring's Importation
RHODODENDRONS, ARAUCARIAS, HARDY AZALEAS, BAY TREES, ROOTED FICUS CUTTINGS, H. P. ROSES, CLEMATIS, ETC.
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Cyclamen Persicum Splendens (giganteum), from flats twice transplanted, in four true colors, $3 per 100, $25 per 1000, express prepaid. Chinese Primroses, seedlings from flats, $1 50 per 100; from 3-inch pots $4 per 100; from 4-inch pots in bud and bloom $5 per 100. Cyclamens from 3-in. pots, $8 per 100; from 4-in. pots in bud $12 00 per 100. 10,000 Geraniums, Dbl. Grant, S. A. Nutt, La Favorite, Gloire de France, etc., our selection from 2-in. pots $2 per 100 express prepaid. SATISFACTION GUARANTEED.
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	100	1000	3000
Kentia Belmoreana.....	$1.00	$6.50	$15.00

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PALMS, FERNS, FICUS
Latania Borbonica, ready for 3 inch; strong, $6 00 per 100. Fine, strong stock of Ferns for dishes, $3.00 per 100; $25.00 per 1000. Asparagus plumosus nanus, 3-inch, $8.00 per 100. Ficus elastica, 5-inch, $5 00 per doz; 6-inch, $6 50; 3 to 5 feet high, $1 50 to $3 00 each. Sword Ferns, 4½ inch, ready for 5-inch, $10 00 per 100.
Twenty-one modern Greenhouses.
Medal awarded on Palms at World's Fair, 1893.
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OUR SPECIALTY: Headquarters
Areca Lutescens, Kentia Belmoreana, Cocos Weddeliana, Kentia Forsteriana, Livistona rotundifolia, Phœnix rupicola, Phœnix reclinata, Araucaria excelsa, Pandanus, Ferns. The largest stock of Kentias in America.
SIEBRECHT & SON, New Rochelle, N. Y.

25,000 FICUS ELASTICA,
Good Rooted Cuttings, $8-$10 the 100.
2,000 FICUS ELASTICA,
12-15 leaves, extra fine plants. $15-$20 the 100.
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Rebecca, seedling by Dorner, fancy bloom, large as Mayor Pingree, stem as strong, bloom is yellowest brown, flaked light pink, bright	Per 100 $5.00
Argyle, fine dark pink	4.00
Tidal Wave, discarded for Argyle.	
Empress, large dark red	4.00
Evelina, best paying white	3.00
Mayor Pingree, big cream	1.50
Gold Nugget, best yellow	6.00
Painted Lady	3.00
Psyche, variegated	3.00
Mrs. Bradt, a dandy	4.00
Sport from Mrs. Bradt, the coming scarlet . . single rooted cutting, each, 25c.	
Flora Hill, the big white	1.50
Daybreak, shell pink	1.50
Triumph, the big pink	1.50
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Above carnations are all strong, healthy rooted cuttings. Estimate given on 1,000 to 50,000 lots.

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2¼-in., Rooted in September, 1898.

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New Coleus Brownii, a fine bedder	$5.00
Velvet Plant, a big seller	3.00
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Geranium Mme. Salleroi	2.00
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" Double white, every variety you want	2.00
Feverfew Little Gem	2.00
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Heliotropes White Lady, Czar and Albert Dix	2.00
Coleus, up to date varieties	2.00
Begonias " "	2.00
Mesembryanthemum Erectum	5.00
Begonia Erfordi, in bloom	2.00
" Saunderson, in bloom	2.00
" Hybrida multiflora, in bloom	2.00

Five plants at 100 rates. Spot cash.

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Pansy Mittings Giant Flowering, ¼ oz.	$1 00
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New Fragrant $1000 CALLA.

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2-in., 24 for $1.50, mailed, $4 per 100, express; 3-in., 24 for $2 50, mailed; $7 per 100, express.

A. BLANC & CO., Philadelphia.

BEGONIAS.

	Per 100	Per 100
Argentea guttata	2-inch, $2.00;	3½ inch, $4.00
Feastii, Specialists	2-inch, 2 50;	
Rubra	2-inch, 3.00;	
Bertha Chatteaurocher, Robusts	3½-inch,	4.00
De Lesseps, Pres. Carnot	3½-inch,	4.00
Roses—La France .. $3.00 per 100; Meteor . .		2.50
White, Pink and Yellow Rambler	3½-inch	4.00

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FLORA HILL,
rooted cuttings, per 100 $2.50
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rooted cuttings, per 100 $2.50

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We have a fine lot of clean and well rooted Carnation Cuttings to offer; will be thoroughly rooted when sent out.

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ARGYLE	$4.00	$35.00
MRS. GEO. M. BRADT	4.00	35.00
ARMAZINDY	2.00	15.00
SCOTT	1.00	7.50
McGOWAN	$1.00	$7.50
TIDAL WAVE	1.00	7.50
DAYBREAK	1.50	12.50

Rooted ROSE Cuttings.

Also will have Rooted Rose Cuttings of the leading varieties, including **AMERICAN BEAUTY** in quantity, ready Feb. 10. Can guarantee they will give the satisfaction they did last year. Our best attention will be given to the filling and packing of orders.

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CRIMSON RAMBLER, 3-year dormant plants, 4 to 5 canes, 4 to 5 feet long, per dozen, $3.00; per 100, $20.00.

PINK, WHITE and YELLOW RAMBLERS, 2-year dormant plants, extra strong, per doz., $2; per 100, $15.

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CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
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Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N.Y.

ROOTED CUTTINGS.

ROSES. Bride, Maids, $1.25 per 100; $10.00 per 1000. Perle, Meteor, La France, $1.25 per 100; 12.00 per 1000.

CARNATIONS.

Flora Hill, $2.00 per 100; $15.00 per 1000. Portia, Daybreak, Scott, McGowan, $1.00 per 100; $7 00 per 1000. Strong cuttings and well rooted; by mail 10c per 100 extra. Cash please.

J. J. LAMPERT, . King St., XENIA, O.

Worcester, Mass.

The first entertainment of the combined Market Gardener's and Florists' Clubs consisted of an interesting lecture on plant diseases by Prof. G. E. Stone of the Agricultural College at Amherst who will be followed during the winter by other specialists.

John H. Hemmingway has been elected superintendent of parks by the park commission and will have charge of developing the unfinished parks, of which Worcester has a great many. Mr. Hemmingway has had charge of the Simpson estate in Saxonville.

Trade has not changed to any appreciable extent, and the supply of blooms is fully up to the demand, but there is no surplus, with prices steady at the usual mark. Weather variable, subject to change without notice. A. H. L.

LOWELL, MASS.—The local Gardeners' Association held a meeting on the evening of January 7 at which were representatives of Dracut, Tewkesbury, Andover and other neighboring towns. A number of interesting subjects were discussed and an outing later in the season was proposed.

CARNATIONS.

Rooted cuttings of the following varieties are now ready.

	Per 100	Per 1000
Gold Nugget, yellow	$6.00	$50.00
Mrs. Geo. M. Bradt, variegated	5.00	40.00
Mrs. Jas. Dean, light pink	6.00	50.00
Argyle, dark pink	5.00	40.00
Mrs. Frances Joost, pink	5.00	40.00
Flora Hill, white	3.00	20.00
Evelina, white	4.00	30.00
New York, dark pink	5.00	40.00
Bon Ton, scarlet	6.00	50.00
Jno. Young, white	5.00	40.00
Jubilee, scarlet	3.00	25.00
Victor, pink	3.00	20.00
Armazindy, variegated	3.00	20.00
Daybreak, light pink	2.50	20.00

Highest quality of cuttings well rooted.

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Catalogue ready Feb. 1st. Greenhouses and address JOLIET, ILL.

CARNATIONS.

White Cloud, Firefly, Evelina, Gold Nugget.... $5.00 per 100, $40.00 per 1000

Mrs. Bradt	3.00	"	25.00 "
Freedom	2.00	"	15.00 "
Jubilee, Flora Hill	1.75	"	15.00 "
Morello, Daybreak	1.25	"	10.00 "
Wm. Scott, Emily Pierson, Silver Spray	1.00	"	7.50 "

Our stock is A1 and we guarantee satisfaction or money refunded.

THE STOVER FLORAL CO.,

Grandville, Mich.

It Will Pay You

To correspond with me regarding Carnation Cuttings. I can supply all the standards and novelties at the lowest market price. Also Asparagus Plumosus Nanus, strong 2-inch stock ready for a shift, $4.00 per 100; $35.00 per 1000.

Address S. S. SKIDELSKY,

1653 N. 7th St., PHILADELPHIA.

50,000 ROOTED CARNATIONS.

Cuttings of the following varieties now ready, no rust, healthy stock.

Daybreak.	Scott, pink.
Meteor, dark red.	Rose Queen, pink.
Hector.	Lizzie McGowan, white.
Helen Keller.	Alaska, white.
Minnie Cook.	Storm King, white.
Eldorado.	Jahns Bros'. Red.
	Fellow Red.

$1.50 per 100, $15.00 per 1000.

Add stamps for mail orders. Orders must be accompanied with cash

D. A. CASEY,
31 Ashley St., Bridgeport, Conn.

CARNATIONS

Rooted Cuttings of New and Standard sorts. Send for price list.

WM. SWAYNE, - Kennett Square, Pa.
BOX 226.

Maud Adams.

DEEP cerise red of a very pleasing shade under any light; a large, bold, handsome flower with extra strong stem, 18 to 24 inches high, with good calyx and exceedingly free flowering. The flowers sold in N. Y. last season and the present one at $8.00 per 100. It was one of the sensations in cut flowers the whole season. Certificated N. Y. F. C. '98.

PRICE: $2 per doz., $10 per 100, $75 per 1000; 6 at doz. rate, 50 at 100 rate, 250 at 1000 rate. FOR SALE BY

FRANK NIQUET, FLORIST,
Patchogue, = Long Island, N. Y.

JOHN N. MAY, Summit, N. J. OR BY E. G. HILL & CO., Richmond, Ind.

... Announcement ...

TO THE TRADE:

Replying to the many inquiries regarding the newspaper reports of the past few days, I would simply state, they are entirely misleading and in some cases ABSOLUTELY FALSE.

There has been no change in my original plans to introduce the stock of the MRS. THOS. W. LAWSON CARNATION to the trade during the spring of 1900, and such is my present intention.

JANUARY 17, 1899. PETER FISHER, Ellis, Mass.

CARNATION SEEDS

and Carnation Seedling Plants

From Hand Fertilized, Winter Blooming Varieties.

100 SEEDS - 25 CENTS
100 PLANTS FOR - $4.00
25 plants at 100 rate.
Postage Prepaid.

Cash with order.

AMERICAN ROSE CO.
WASHINGTON, D. C.

CARNATIONS

Healthy Rooted Cuttings Now Ready.

Flora Hill, Alba Superba, Mayor Pingree, Jubilee, Hector, Victor, Daybreak, Triumph, Wm. Scott, Armazindy, Minnie Cook.

Write for prices.

PENNROCK CO., Box 252, Wilmington, Del.

NEW CARNATION

Gov. Griggs

SEEDLING OF VAN LEEUWEN ON DAYBREAK.

Strong, healthy grower, free from disease of all kinds, continuous free bloomer with flowers very erect on a stiff stem, 18 to 20 in.; flowers similar in color to DAYBREAK, but much brighter, edge beautifully fimbriated, good shape and with full center, and does not burst; commands the highest prices in New York for novelties. Having been grown by us for the past 4 years we can with confidence recommend it to the florists of America as one of the best if not the best light pink carnation ever sent out. Orders are now being booked for rooted cuttings to be delivered February 1 1899. Price, $75.00 per 1000; 500 at 1000 rates; $10.00 per 100; $2.00 per dozen. All orders filled strictly in rotation.

Cash with order from unknown correspondents. A personal inspection invited.

JOSEPH TOWELL, Paterson, N. J.
Haledon Ave. Nursery.

Our Specialty!

ROOTED CUTTINGS of NEW VARIETIES of CARNATIONS

Special prices to those who issue lists or who buy to sell again. Let us know what you are likely to need and get prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

Bassett & Washburn's
ROOTED CUTTINGS
OF
ROSES AND CARNATIONS

Are as Good as can be Grown and Free from any Disease.

WE GUARANTEE WHAT WE SAY.
ORDERS FILLED IN ROTATION.

ROSES.

	100	1000
Meteor	$1.50	$12.50
Bridesmaid	1.50	12.50
Bride	1.50	12.50
Perle	2.00	17.50
Kaiserin	2.00	17.50

We shall have a Nice Lot of **PLANTS** Later. Place Your Orders Early if You Wish the Best.

CARNATIONS.

PINK.	100	1000
TRIUMPH	$1.50	$12.50
WM. SCOTT	1.00	7.50
PAINTED LADY	4.00	35.00
DAYBREAK	1.50	12.50
ARGYLE	4.00	35.00
MRS. FRANCES JOOST	5.00	50.00
McBURNEY	1.50	12.50
RED.		
DAZZLE	$4.00	$35.00
JUBILEE	2.00	17.50
PORTIA	1.00	7.50
BON TON	4.00	35.00
MAROON.		
EMPRESS	$4.00	$35.00

WHITE.	100	1000
FLORA HILL	$1.50	$12.50
MARY WOOD	5.00	40.00
The largest and best white Carnation that is grown. Has a strong, stiff stem, and a constant bloomer. Sell in the market to-day for nearly double any other white Carnation we handle.		
EVELINA	4.00	35.00
WHITE CLOUD	4.00	35.00
VARIEGATED—White and Red.		
MRS. GEO. BRADT	$5.00	$40.00
PSYCHE	4.00	35.00
ARMAZINDY	2.00	17.50
YELLOW.		
MAYOR PINGREE	2.00	17.50
GOLD NUGGET	6.00	50.00

GREENHOUSES AND RESIDENCE, HINSDALE, ILL.
Long Distance 'Phone No. 10.

BASSETT & WASHBURN,

STORE, 88 Wabash Avenue, CHICAGO, ILL.
Long Distance 'Phone Main 223.

FOUR GRAND
CARNATIONS

AMERICA. The largest and most perfect shaped scarlet carnation produced thus far, producing immense quantities of its soft scarlet flowers. Of extra robust growth, free in the production of bloom. A good commercial variety. Preliminary certificate A. C. S. at Chicago.

G. H. CRANE. (Dorner). A long stemmed bright scarlet free, profuse and constant bloomer. It comes into bloom early and yields both quality and quantity. Stem long and stiff from the beginning to end of season. Tested 3 years and proved all right as a commercial variety. Certificate A. C. S.

MELBA. (May and Craig). A grand combination of good qualities, free bloomer, early and continuous. In point of color the finest pink carnation yet introduced; large and perfect in form, very fragrant and with a long stiff stem.

MAUD ADAMS. (Niquet). Deep clear cerise of a very pleasing shade under any light. Most attractive color of its class. A large bold handsome flower with extra long stem, 18 to 24 inches high, with good calyx and exceedingly free flowering.

PRICE for the above 4 varieties $10.00 per 100; $75.00 per 1000.

E. G. HILL & CO., Richmond, Ind.

HERR'S CARNATIONS.

YOU RUN NO RISK.

ALL Carnation Cuttings are sent out with the privilege of returning them at my expense if they are not found satisfactory on receipt, and your money returned you in full. I have from one to five thousand stock plants of each of the leading varieties, and offer cuttings at very reasonable prices.

Nine Good Novelties!

Twenty-Five Standard Sorts!

Send your list before you place your orders.....

ALBERT M. HERR, Lancaster, Pa.

Please Mention American Florist.

ROOTED CARNATION CUTTINGS.

	Per 100.	Per 1000.		Per 100.	Per 1000.
Triumph,	$3.00	$25.00	Armazindy,	$2.50	$20.00
Jubilee,	3.00	25.00	Pingree,	2.00	15.00
Argyle,	5.00	40.00	Alaska,	1.25	10.00
Flora Hill,	2.50	20.00	Wm. Scott,	1.25	10.00

Every one well rooted and in first-class condition.

WIETOR BROS. 51 Wabash Ave., Chicago.

Please Mention American Florist.

CARNATIONS.

Cut Blooms. Standard Varieties.

$1.50 to $2.00 per 100.

GOOD SMILAX.....$15.00 per 100

EVENDEN BROS., WILLIAMSPORT, PA.

It is time you were thinking about

CARNATION STOCK

for next season. It pays to buy only the best. Will have them in large quantities, of all the leading commercial varieties. Ready Jan. 1st and later. Write me for prices.

Address CHAS. CHADWICK,
Lock Box 11, Grand Rapids, Mich.

Helena, Mont.

Mrs. Wells has leased her greenhouses to William Majors, who is an industrious young man and promises to make a success of the venture. It is rumored that Mr. Rustler, of the Sixth avenue greenhouses will go into partnership with Mr. Majors. If this combination is effected it will make a strong "team."

Charles Horn reports business rather better than last year, although net results are not as good as they could or should be.

The property of Mrs. Mattie Miller at the Broadwater greenhouses had a narrow escape from being entirely consumed by fire recently. Fortunately, however, Mr. Miller was on the spot with the hose and soon succeeded in extinguishing the fire.

Mr. Dinsmore, of the Bitter Root Valley, was a visitor at the State Nursery Company's recently. Mr. Dinsmore has a very fine orchard, probably one of the largest in the country, having over 47,000 winter apple trees in a flourishing condition. Several big commission houses in the east have offered to take all the fruit he can produce within the next five years at a price much above the average.

The State Nursery Company finds business a little ahead of previous years. They think they are justified in putting up the two buildings they now have underway, one rose house 17x130 and one smilax house 16x50. A. J.

New Bedford, Mass.

At the annual meeting of the New Bedford Gardeners' and Florists' Club, January 9, the following officers were elected for the ensuing year:

President, A. J. Fish; vice-president, Thomas White; secretary, Peter Murray; treasurer, T. H. Dahl; assistant secretary, S. S. Peckham; executive committee, James Garthley, William Keith, August Jahn.

The club voted not to hold its annual fall chrysanthemum and floral exhibition, owing to the light patronage and lack of financial support from the public.

Edw. Parre's Largest Petaled and Cheapest BEGONIAS

The finest in trade, 1 inch and more.

Double, $3 per 100, $22 per 1,000, $200 per 10,000. Single, $1.50 per 100, $11 per 1,000, $90 per 10,000 Gloxinia; 1st class choice, $1.25 per 100 $12.00 per 1,000. Cash with order or good references.

GHENT, BELGIUM.

Chrysanthemums.

We are Headquarters for all '99 Novelties. Also complete list of best commercial varieties.

Correspondence Solicited.

NATHAN SMITH & SON, Adrian, Mich.

CRIMSON RAMBLER A few extra strong RamblerRoses left, with heavy fibrous roots. In two sizes:

Crimson Rambler		$15 00	and	$18.00	per hundred
Yellow "		10 00	"	15 00	" "
White "		10 00	"	12 00	" "
Pink "		10 00	"	12.00	" "

Order quick if you want them.

THE CONARD & JONES CO., West Grove, Pa.

FOR SALE.

100 Grevillea Robusta; out of four (4) inch pots; nice stocky plants, with two and three shoots; $6.00 per hundred.

WM. CUNNINGHAM,

93 Canal Street,

GRAND RAPIDS, - - MICHIGAN.

Begonia Gloire de Lorraine.

The finest winter-blooming plant in cultivation. In bloom half the year. We offer stock plants as follows.....

Plants from 2½-in pots, 25c. each; $2.50 per doz., $20 per 100.

Plants from 4-in. pots, 50c. each; $5 per doz., $40 per 100.

By mail, 10c each extra.

Our Florists' Wholesale List of new and choice FLOWER SEEDS mailed free.

R. & J. FARQUHAR & CO.,

16 & 19 South Market St.,

BOSTON.

Rex Begonias.

10 KINDS.

3 and 4-inch pots.....50c per doz., $4.00 per 100

ASPIDISTRA LURIDA VARIEGATA.

Fine plants from 4-inch pots.....$1.50 per doz.

SANSEVIERA ZEYLANICA.

5-inch pots.....$1.00 per doz.

CASH WITH ORDER.

McDONALD & STEELE,

CRAWFORDSVILLE, IND.

DAHLIAS

By the Tens of Thousands.



My prize winners carried off the highest national honors yet awarded the dahlia—a diploma and gold medal at the Omaha Exposition. Get my catalogue before ordering elsewhere.

Box 382. W. W. WILMORE, Denver, Col.

Geraniums

Well-rooted cuttings, best varieties, mixed, $1.00 per 100; $9.00 per 1000.

Cash with Order.

PETER BROWN, - Lancaster, Pa.

2000 Primula Sinensis.

Fine. Dreer's best strain, from 3-inch pots, at $3 00 per 100. cash.

JOSEPH LABO, Joliet, Ill.

GROW YOUR OWN CINNAMON VINES

At a Big Profit.



Why not plant liberally of this beautiful vine, one of the most popular and best sellers among climbers. It is a strong, hardy grower; thrives everywhere. Its many clusters of delicate white flowers send out an amount of fragrance that is as truly wonderful as it is indescribable. Your customers will want it. Be prepared.

Read These Testimonials.

L. and M. J. Clarkson, authors of "Art Studies," write: "No vine ever gave us so much continued pleasure. The growth is truly phenomenal. Its handsome foliage and fragrant blossoms commend it to every lover of flowers. If its merits were more widely known you would be overwhelmed with orders."

From Bessie L. Putnam in "Epitomist": "The Cinnamon Vine rivalled in growth the famous bean stalk and when in bloom, as ours was for weeks last season, one might almost believe that the spice laden odors of its native Philippines were transported with it, so aromatic is its fragrance.

Price of Choice Bulbs, Extra Large Selected 500 for $3, 1000 for $5, 3000 or more, $4 per M. Cash with order. Colored Plates free with Bulbs.

A. T. COOK, SEEDSMAN, Hyde Park, N. Y.

New Sensational Geranium

"KENTUCKY BELLE."

This grand new variety is the finest of many seedlings we have introduced for many years, being on the style of Souv. de Mirande, which has been one of the best sellers in many years. The color is intensely brilliant and entirely different from any Geranium in existence. A free bloomer, stands the sun well, of a dwarf habit; should be in every collection.

Strong plants, 2½-in. pots, $3.50 per dozen, $25.00 per 100. Address

NANZ & NEUNER, Louisville, Ky.



FREE to ALL.

Our Illustrated Catalogue of ROSES, PLANTS, SEEDS, BULBS and ROOTS, GRAPEVINES, SHRUBS, ETC., will be mailed FREE to all applicants. It will pay to examine it. 60 greenhouses. Goods guaranteed to be first-quality. Established 1850.

NANZ & NEUNER, Florists Louisville, Ky.

...DAHLIAS...

Strong field-grown roots, $8.00 per 100. Assorted in ten or more varieties; each plant labeled with name and color printed on wooden labels and wired fast—the most convenient way to have them for retailing.

Descriptive catalogue and wholesale-trade list of ornamental nursery stock sent to those in the trade.

SAMUEL C. MOON,

Bucks Co. Morrisville, Pa.

FOR EXCHANGE.

Geraniums from 2½-in. pots and from flats, of the best varieties of double mixed, and best varieties single mixed. Also Heliotrope and Ivy Geranium and Mme. Salleroi from flats, fine stock. Will exchange for rooted cuttings of Mrs. Fisher or Daybreak Carnations. Write what you have at once.

FRANK L. RUMREY,

Box 124. 95 Pleasant St., STOUGHTON, MASS.

1500 Cinerarias

In 4-inch pots, will be sold at $12.00 per 100, in bud, nice fine plants. Order at once.

Cash with order.

E. L. CRONBAUGH, Ada, O.

Successful Growers

Know that they can dispose of all their Surplus Stock by advertising in the American Florist. TRY IT NOW.

CARNATIONS ROOTED CUTTINGS.

Lizzie McGowan, Tidal Wave, Ivory, Alaska, Uncle John, Wm. Scott, Helen Keller and Garfield $2.00 per 100; $15.00 per 1000. Daybreak, Emily Pierson and Flora Hill $3.00 per 100; $25.00 per 1000. Jubilee and Morello $3.00 per 100. Mayor Pingree, Mrs. Ch. Dulme and Mrs. Geo. Bradt $4.00 per 100.

CHRYSANTHEMUMS, 2¼-in. pots.

Frank Hardy, Mrs. M. Ryerson, Western King, Mrs. C. H. Weeks, Madeline Pratt, Mayflower, Evangeline, Defender, Lorelei, Wm. H. Chadwick, Golden Trophy, Snow Queen, Mrs. C. H. Pierce, Yellow Fellow, Pennsylvania, $6.00 per 100.

FIFTY STANDARD SORTS—Ivory, Robinson, Golden Wedding, Mrs. Perrin, etc., $3.00 per 100.

CYCLAMEN P. GIGANTEUM, 4-in. in bloom, $15.00 per 100.

CINERARIA, fine stock, 4-inch $10.00 per 100.

DRACAENA INDIVISA, 2¼-in. $4.00 per 100; 4-inch $10.00 per 100.

FUCHSIAS, strong summer grown, $3.00 per 100.

FARFUGIUM GRANDE, 2¼-in., $8.00 per 100; 3-in. $12.00 per 100.

GERANIUMS,

Splendid assortment,	$25 per 1000;	$3.00 per 100
Mt. Snow and Happy Thought	4.00	" "
Ivy Leaf and Souv. Chas. Turner	4.00	" "
Mme. Salleroi and Rose	3.00	" "
Mrs. Pollock	5.00	" "
Mrs. Parker	6.00	" "

NEW VARIETIES—Dbl. New Life, J. Ricard, Pres. Leon Picas, Bruant, Beauty Pointevine and Athlete, $5.00 per 100.

...HELIOTROPE...

Four extra fine sorts, $3.00 per 100; Czar $1 per doz.

HYDRANGEAS,

This stock will bloom this spring.

Hortensis, 2¼-in. $4.00 per 100; 4-in. $10.00 per 100
" 5 and 6-inch $25.00 per 100.
Thos. Hogg, 3-in. $8.00 per 100; 4-in. $12.50 per 100.

LATANIA BORBONICA,

2¼-inch. $4.00 per 100 | 4-inch. $2.50 per doz.
3-inch..... 8.00 " " | 5-inch..... 4.50 " "
6-inch $9.00 per dozen.

LIBONIA PENRHOSIENSIS,

4-in. in bud $10.00 per 100; 2-in. $3.00 per 100.

MOON FLOWER,

White.....$4.00 per 100

PELARGONIUMS,

Mme. Thibaut, splendid new double,
4-inch....$15.00 per 100 | 2¼-inch....$10.00 per 100
Victor.... 6.00 " " | Mixed with label $3 " "

PETUNIAS, DOUBLE WHITE.

Strong grower, free bloomer, Snow White, $4 per 100

ROSES,

Leading forcing sorts $3.00 per 100; $25.00 per 1000
" " " 3-inch.....$5.00 per 100
50 varieties ever bloomers 3.00 " "
20 " H. P's..... 5.00 " "

VINCAS, 2¼-in. $3 per 100; 4-in. $15 per 100.

W. L. SMITH,
AURORA, ILLINOIS.

AMPELOPSIS VEITCHII,

Strong 1 year	$4.00 per 100
Alternanthera 2 var,	$2.50 per 100; $20.00 per 1000
Begonias in variety	$4.00 per 100
Cannas, good sorts	5.00 "
Dahlias, small 25 varieties	4.00 "
Cyperus (Umbrella plant)	3.00 "
Feverfew, Little Gem	3.00 "
Achillea, 2 varieties	3.00 "
Ageratum, Cope's Pet	3.00 "
Asparagus Tenuissimus	6.00 "
Cuphea, 2 varieties	3.00 "
Grevillea, 3-inch	6.00 "
English Ivies	3.00 "
Nierembergia, Othenna	each 3.00
Otaheite oranges, 4-in.	$2.00 per doz.
Oleanders, double white	6.00 "
" " " 6-inch	10.00 "
Phlox, hardy	4.00 "
Salvias	3.00 "
Smilax	2.00 "
Swainsonia	4.00 "
Violets, California and Mary Louise	3.00 "
Velvet plants, 3-inch	8.00 "
Lemon Verbena	4.00 "
Euphorbia splendens 4-in.	$2 per doz.

VERBENAS,

Pot plants	$2.50 per 100;	$20.00 per 1000
Cuttings	.75 "	6.00 " "

COLEUS, Pot plants 2.50 per 100; $20.00 per 1000
" Rooted cuttings .75 " " 6.00 " "

For further prices and descriptions consult our 20 page Trade List ready this month. Send for it.

O, Say! Your Order Now

All "Rooted Good" Now Ready.

	Per Doz.	100.	1000
Fuchsias, 6 varieties	.20	$1.25	$10.00
Heliotrope, 5 varieties	.20	1.00	8.00
Vincas, Major and Minor	.15	.75	6.00
Petunias, double, 8 varieties	.20	1.25	10.00
Mrs. Jeffreys (the caruation Petunia, new)	.40	2.00	
Verbenas, 12 varieties	.15	.70	6.00
Geraniums, Mme. Salleroi	.20	1.25	10.00
Ageratums, Princess Pauline	.20	1.25	
Alyssum, Double Giant	.20	1.00	
Abutilons, Souv. de Bonn	.20	1.25	
" Savitzii	.40		

Express paid to all parts of United States and Canada.

S. T. DANLEY, - Macomb, Ill.

NEW MAMMOTH VERBENAS.

25 grand varieties guaranteed satisfactory in every respect. Strong rooted cuttings, 60c per 100, $4 per 1000. Fine pot plants, full of cuttings, $2 per 100. Cash with order. EXPRESS PREPAID to all parts U. S. and Canada. Send for descriptive circular.

AN ORDER JUST RECEIVED.

SOUTH SIDE FLORAL CO., Springfield, Ill.:
Dear Sirs—The Verbenas arrived in good order. Thanks for sending me as good stuff as nobody has any room to kick on that kind of stuff at twice the price. Please find P. O. order for $1, for which send me 100 Double Fringed Petunias. Resp'y yours.
Brazil, Ind., Dec. 18, '98. A. DINKLE.

SOUTH SIDE FLORAL CO., Springfield, Ill.

LOOK AT OUR PRICES.

Thirty-eight varieties Verbenas rooted cuttings 60c per 100. $4 00 per 1000. 5000 for $18 00: Heliotrope rooted cuttings, 8 varieties, 80c. per 100. $6 00 per 1000; Petunias, 15 of the best and latest varieties, rooted cuttings, $1.25 per 100; Coleus, 20 good named kinds, rooted cuttings, 50c per 100, $6 00 per 1000; Ageratums, white and blue, 50c per 100; $4 00 per 1000 rooted cuttings. Pelargoniums, 2½-in. pots, $4.00 per 100; 'Mums, 50 of the latest and best varieties, rooted cuttings.

Send for list. We prepay all rooted cuttings and satisfaction guaranteed. This is cheap, but it don't cost us anything to grow them. CASH WITH ORDER.

S. D. BRANT, Clay Center, Kans.

Verbena, Lantana, Heliotrope, Ceranium and Chrysanthemum plants in varieties. Also **Lemon Verbena, Helianthus Multiflorus,** Etc., strong plants from 2½ in., $2 per 100.

Nymphaea Odorata Gigantea, large roots, $1 50 per 100.

Caladium Esculentum, from 6 to 8 inches. per 100, $1 50; 500 for $5 00.

Canna Roots, good varieties, $2 per 100.

500 Dwarf Orange Plants (Citrus Sinensis), large bushy heads, from 4 to 5-in. pots, $20 per 100.

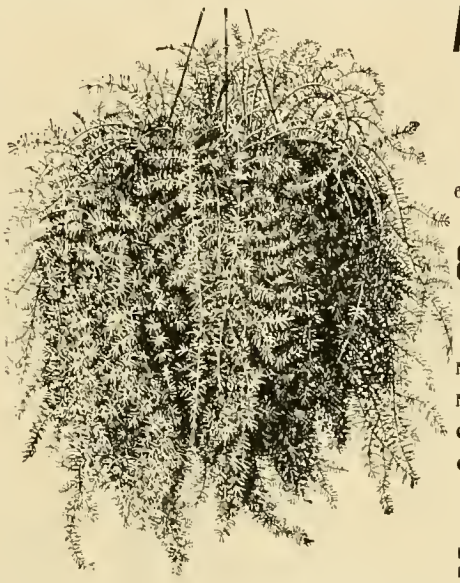
R. VINCENT, JR. & SON, White Marsh, Md.

PANSIES WORTH RAISING.

Good Small Plants from cold frames or greenhouse only, at $4.00 per 1000. All others not accessible at present.

CASH WITH ORDER. **Seed as usual.**

C. SOLTAU & CO., 199 Grant Avenue, JERSEY CITY, N. J.



ASPARAGUS SPRENGERII

Extra fine bushy stock, all pot bound and ready for a shift.

2½-inch	$.75 per doz.,	$5.00 per 100
3 -inch	1.00 "	8.00 "
4 -inch	2.00 "	15.00 "
5 -inch	2.50 "	20.00 "
6 -inch	3.00 "	25.00 "

6-inch Wire Hanging Baskets, extra full, each, 75c.; per doz., $8.00
8-inch " $1.00; " 10.00

8 Grand New Geraniums for $3

William Langguth **Jean Diand**
Mme. A. Gerard **Mme. St. Pol Bridoux**
Vera Vend **Mrs. Beecher Stowe**
Mme. Blanche Jamet **Grand Duchess Olga**

NEW HELIOTROPE; Czar and Czarina, per dozen, 50c.; per 100, $4.00.

NEW AGERATUM, Princess Pauline, per dozen, 50c.; per 100, $4.00.

CARNATIONS, rooted cuttings, all the new ones; also all the standard sorts. Write for estimate.

CANNAS. We have a fine stock of all the best sorts. Write us for prices.

VAUGHAN'S SEED STORE,

NEW YORK: 14 Barclay St. **CHICAGO:** 84-86 Randolph St.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20 per 1000. Rooted Cuttings, 75c per 100; $6.00 per 1000; $50 per 10000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

SPECIAL OFFER—CHEAP!

Anybody who intends to grow **HEATH** here is your chance! Speak quick if you want any. I have a surplus of fine bushy plants from 3½-in. pots of the Xmas variety,

ERICA FRAGRANS, $15.00 per 100.

Cash must accompany all orders.

A. SCHULTHEIS, Box 78, College Point, L. I. N. Y.

Choice transplanted

Cyclamen Seedlings,

DREER'S STRAIN.

2-5 leaves.....$3.00 per 100.

GERANIUM "MARS", 2½-inch pots, 75c. per dozen, $5.00 per hundred.

HENRY EICHHOLZ, Franklin Co. **Waynesboro, Pa.**

THE JENNINGS STRAIN PANSIES. SEED. PLANTS.

Finest mixed. Good little plants for cold frames, $4.00 per 1000, express.
Seed, $1.00 per pkg, $5 00 per ounce.

E. B. JENNINGS, L. B. 254, **Southport, Conn.**
Grower of the Finest Pansies.

FOR 30 DAYS!

We Offer

VERBENAS, nice plants, fine colors 2-in pots	$ 1.00 per 100
SMILAX, 3-in. pots (strong)	1.00 per 100
ROSES, assorted 2½-in. pots	2.00 per 100
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STOCK AND THE MARKET.—ROSES SCARCE.—MANY VIOLETS ON A CASKET.—THE CLUB IS PROSPERING.—JOTTINGS OF INTEREST.

Cloudy weather is keeping stock back but there are both carnations and violets enough to supply the demand. Roses are rather scarce. We are consuming a great quantity of violets, one dealer using 17,000 on a single casket last week.

The Florists' Club is prospering, four new members being admitted at the last meeting. G. A. Rackham reported that many applications for space in the exhibition hall are being received and the indications are that our convention will see the best trade display on record.

Among recent visitors were Arnold Ringier, of W. W. Barnard & Co., Chicago, and E. H. Giesy, of the Lockland Lumber Company. R. F.

Columbus, O.

Trade has kept up well ever since Christmas. There was none of the usual dullness before the holidays and every one is satisfied with the business thus far in the new year. There are numerous weddings and social events but it is funerals which are using up the stock. At the present flowers are a little more plentiful but they were very scarce a week ago and we had to send out of town for a large portion of our wares. Qualities are pretty fair. F. D.

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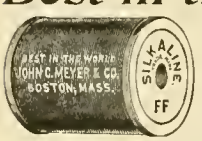
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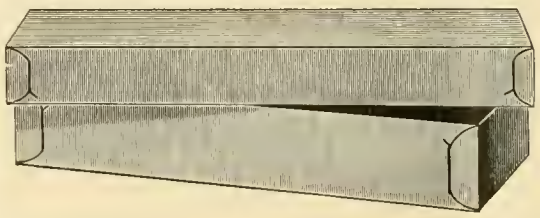
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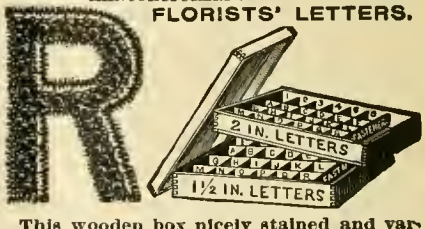
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Los Angeles.

FLORISTS ENJOY A PROSPEROUS EARLY WINTER.—CHRYSANTHEMUMS AND CARNATIONS FINE FOR THE HOLIDAYS.—A SUCCESSFUL BUG HUNTER.—JOTTINGS OF PERSONAL DOINGS.

The florists and plantsmen in this vicinity are very much happier this holiday season than they were over that one year ago. There was no rain or even fog to injure chrysanthemums and the demand was good. Carnations are very fine where irrigating was properly attended to and the principal growers report no surplus so far at any time and no one had enough to fill orders for the Christmas trade.

George Compere, the entomologist who was sent to the Hawaiian Islands to search for parasites that would destroy the various scales and other plant lice, has already succeeded in obtaining some valuable species which have done wonderful work in the ridding plantations on the islands of these injurious insects. He has been successful in breeding these parasites and is now forwarding colonies of "lady bugs" by every steamer leaving Honolulu, which are being liberated in the orchards in Los Angeles county. This is the most valuable work so far accomplished by our horticultural commissioners.

There is scarcely a meeting of horticultural people anywhere in central or southern California to which Mrs. Theodosia Shepherd, of Ventura, is not invited to deliver an address. Next week she appears before the wealthy and cultured citizens of Redlands.

Alvin R. Meserve, one of the veteran nurserymen of this county, has been elected horticultural commissioner.

Jacob Dietrich is preparing plans for a large show-house for palms and other ornamentals.

Fred. Rafferty, of Santa Anna, is sending in the finest Swanley White and Farquhar violets ever seen in this city.

Alfred Roedder, of Shorb Station, reports the best holiday trade for five years.

Ernest A. Asmus, who spent some weeks here, has returned east.

The recent dry years have caused much search for additional water. The latest estimate of water development for 1898 is 20,000 miner's inches, a quantity sufficient to irrigate 80,000 acres of land.

D. R. W.

Providence, R. I.

At a regular meeting of the Florists' and Gardeners' Club of Rhode Island held January 12 the following officers were installed for the year: President, W. E. Chappell; vice-president, James Hockey; secretary, Alex. M. Rennie; treasurer, F. Macrae; librarian, J. Macrae; executive committee, Walter S. Nichol, William Hill, R. W. Greene; essays and discussions, James B. Canning, Charles Forbes, James Hockey; on investigation, Wm. B. Hazard, William Appleton, Jr., I. Z. Dodge; on entertainment, N. D. Pierce, Jr., Alex. M. Rennie, T. J. Johnston; awards on exhibits of new varieties of merit, M. Sweeney, J. Macrae, J. F. Schellinger.

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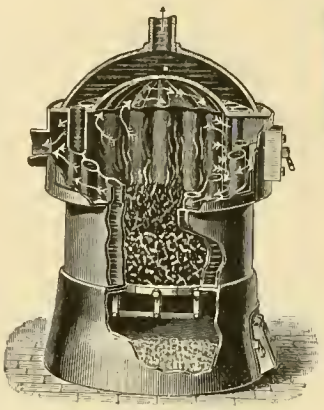
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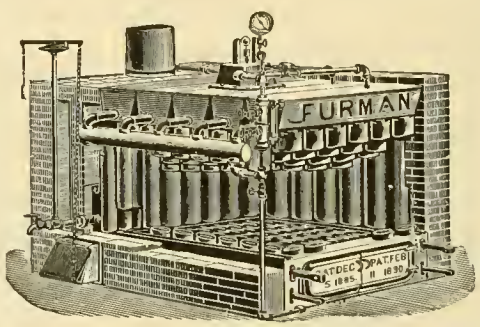
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Vol. XIV. CHICAGO AND NEW YORK, JANUARY 28, 1899. No. 556.

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THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February 16 and 17, 1899. ALBERT M. HERR, Lancaster, Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Detroit, Mich. August, 1899. ELMER D. SMITH, Adrian, Mich., secretary.

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Notes and Comments.

The question of storing flowers is most interesting, not alone to the retail florist and commission man but to the grower. There have been great changes in the methods employed during the last twenty-five years in caring for flowers and especially does this apply among retailers in the cities. A cellar, a vault or a cave was employed some years ago among the fraternity in general, and is the one mostly in use by the grower to-day, and with few exceptions, so far as can be learned, with satisfactory results.

If some grower would only discover a method whereby he could hold flowers until the retailer needed them, to be delivered in large or small quantities as his trade demanded, he would be "right in it," so to speak; but the operative process must secure the same freshness to the flower as though just cut from the plant. No briney appearance would go. These thoughts are engendered because some retailers sometimes become very impatient if the grower does not deliver all the flowers ordered for Christmas and other festive occasions, and if the color is not quite up to the desired shade a vigorous kick is inevitable.

There seems to be more trouble with cellars or vaults in cities than is the case in the country. This would seem to be because sewer gas, which prevails altogether in cities and is not known in the country, is at the root of the trouble. So far as I am aware carbonic acid gas, which is mentioned as deleterious by "Pro Bono Publico" in a recent number, should be quite as plentiful in the country as it is in cities. Sewer gas may be a specified kind, but the probabilities are it is a combination of a number of deleterious gases which escape into the sewer and permeate the whole subsoil and eventually find their way into many cellars in the built up portions of the cities.

I have in mind one of the leading firms of Philadelphia who experimented considerably, in years gone by, in trying to get rid of deleterious gases from their flower vault, which is located under the sidewalk, but now is abandoned altogether, I believe, a fine ice chest in the store being used for keeping their flowers. Pennock Brothers is the firm to which I refer and if they would they could, I know, give some information along these lines that would be a benefit to commission merchants, retailers, and growers alike.

Reference books tell us that "plants absorb carbonic acid gas by the leaves and therefrom obtain the carbon necessary for the formation of wood; they remove it as fast as it is produced and thereby keep the atmosphere in a state suitable for animal life.

"There is also a popular prejudice against plants in a bedroom during the night time. This is based on the fact that plants give off carbonic acid gas in the dark while they absorb it during the day. Plants also liberate carbonic acid gas during the flowering season, but the total amount from these two sources is so very small that a single gas burner will vitiate the air of a room more rapidly than a large collection of plants."

THE NEW ROSE LIBERTY.

The new rose Liberty is creating a good deal of talk these days. I have seen it growing at the establishments of both Ernst Asmus, West Hoboken, N. J., and Robert Scott & Son, Sharon Hill, Pa., who, it is understood, own the stock jointly. Generally speaking, it creates a favorable impression; a bright, rich color, fine shape, and exquisite fragrance are among its strong points. Its free blooming qualities, however, have not yet been determined to the satisfaction of all the growers. When seen a few days ago at Sharon Hill it did not show up to the best advantage in that respect, owing to the fact that much of the wood had been taken for propagation. At West Hoboken in the latter part of November it presented a much better appearance, being full of buds, every shoot apparently, having a bud thereon, which speaks well for it in that respect.

A new rose likely to prove valuable nearly always is at a disadvantage for the first few years of its existence, on account of the natural desire of the proprietor or proprietors thereof to get up a large stock. Enough plants for next year it is to be hoped will be propagated so that a line on its freedom may be obtained, for a bright colored, sweet scented crimson rose is always in demand, and if the growers are reasonably sure of adequate compensation for the outlay made they will not be slow to invest liberally in this new comer. Mr. Cartledge, of Pennock Bros., declares that it is a rose with excellent keeping qualities, which is another good point in its favor.

BEGONIAS.

Since the advent of the new Begonia Gloire de Lorraine as a winter bloomer, begonias in general are becoming more popular. The semperflorens type, of which Vernon is an excellent example, are yearly becoming more popular as bedding plants. There are varieties with yellow leaves now to be had, but they are not very

well fixed as yet, not coming true to the description from the seed, and this would be serious where any set designs for summer decorations are attempted. The description has it that the color of the flowers are red or similar to those produced by Vernon, but out of one hundred plants or so secured from seed sown not one came true to that description; one-third, possibly, came with white flowers, the remaining two-thirds being white edged with pink similar in markings to Sutton's Duchess of Edinburgh. Nevertheless all are pretty and both, after careful selection to type and coloring, especially the variety with white flowers, ought to be excellent for edging. The nomenclature committee of the S. A. F. will have lots to do in the next few years in straightening out the names of the several varieties.

I have in mind the old B. incarnata from Mexico. I have a plant here which a tourist brought from our neighbors across the border and it is the same which I knew under that name a very long time ago, but there have been some improvements raised from the original and disseminated under various names, as robusta, gigantea, et al.; another which was raised by Charles Sander, Brookline, Mass., which his friends desire to call Charles Sander, but which he calls simply Incarnata Improved, declining the honor of having it named after himself. Some of these improved varieties are still labeled in some establishments as plain B. incarnata. This is confusing, and if the S. A. F. nomenclature committee decides to try to straighten out the begonia names, John Coulson could and would, no doubt, render valuable assistance along these lines, as he has made a study of begonias for a number of years, consequently his knowledge is of a high order. There are too many synonyms to some varieties; all but one, when the correct one is decided upon authoritatively, should be dropped.



BEGONIA INCARNATA—IMPROVED. REPRODUCED FROM NO 457.

Efforts are sure to be made with more or less well directed purpose to improve upon Gloire de Lorraine, but how well success will crown these efforts is problematical. Victor Lemoine, France, was the fortunate raiser of Gloire de Lorraine, and although the parents are believed to be known, it is doubtful if the results obtained by that successful hybridist would be duplicated. Mr. Orpet in a recent number of the AMERICAN FLORIST, records two distinct varieties as being grown as Gloire de Lorraine. Is one a sport or may the two have originated at the same time, coming from the same seed pod? B. Socotrana and B. Dregii are said to be the parents of Gloire de Lorraine. Dregii I do not know, but Weltoniensis was well known twenty-five years ago, and it is said to claim Dregii as one of its parents. The color of the flowers of the pink Weltoniensis are similar to those of Gloire de Lorraine and Socotrana, but in habit the plants are very dissimilar. It is stated that some years ago both the pink and white varieties of Weltoniensis were used quite largely in Vienna as bedding plants. In this climate they do not flower sufficiently free to be used for that purpose, blooming not until the fall and early winter months and showing the effects of environment in changing the character of some plants.

To again refer to B. Socotrana, seed seems to set freely on that species, but it germinates somewhat erratically. For instance, from four capsules of seed sown in March last year only one plant was the result, whereas, seed from one pod ripening about same time and not sown until August germinated quite satisfactorily. The length of time from fertilizing the flowers until the ripening of the seed varied from forty-eight to fifty-one days. In my own experience, recently, the capsules have apparently ripened in less than thirty days. There are evidences, however, of premature ripening with me. The seed harvested looks plump and good, but whether it will germinate or not will not be known until the summer months, as I intend to hold it until that time. Socotrana goes to rest soon after this time and remains dormant until July, when it will show signs of life, and should be encouraged to grow. I think we may look forward in the near future to several hybrids being raised with Socotrana as one of the parents, and it is to be hoped that something valuable will be the result.

And now we are to have double flowering varieties of the semperflorens (Vernon) types, to be introduced this year for the coming summer's bedding, also some dwarf compact varieties of the same types, all of which ought to prove useful. The double flowering forms may with confidence be expected to be good for the conservatory and home decoration, in addition to their value for summer.

E. L.

Begonia Gloire de Lorraine Nana Compacta.

This dwarf flowering form of this popular begonia appeared among a lot of plants imported by R. & J. Farquhar & Co. last season, and has been propagated by them. As shown in the illustration the habit is very compact and the abundant blooms almost completely hide the foliage. As a table plant there can be



BEGONIA SOCOTRANA AND B. INCARNATA. REPRODUCED FROM NO. 501.

nothing more elegant. The plant illustrated was exhibited before the Massachussets Horticultural Society on January 14, and received a first class certificate of merit.

ROSES.

LIGHT GREEN FOLIAGE.

ED. AM. FLORIST:—Some rose grower will oblige by advising with regard to my plants. The soil is a sandy loam to which one quarter of cow manure was added when the plants were set. The growth was fair until the darker days set in, but since then many of the plants have been clothed with foliage of a very light green color. About half the plants on one bench are in this condition, while the others have good foliage. Soil, watering and mulching the same in both cases. E. V. C.

Everything indicates, so far as the description goes, that the plants are badly affected with club root. Of course I cannot say for certain that such is the case without an opportunity to examine the roots, but if he will take up one of his badly affected plants and wash the soil off very carefully, I think "E. V. C." will find many small knots on the roots. It is so easily detected that there can be no doubt about it if he examines them closely. The knots will run all the way from the size of an ordinary pin head to three or four times that size, and if carefully dissected and examined under a microscope worms will be found to be very abundant in them. I cannot see any other reason for his plants behaving as he says they are doing. JOHN N. MAY.

BRIDE, BRIDESMAID AND PERLE.

ED. AM. FLORIST:—I am growing Bride, Bridesmaid and Perle on benches six inches deep and six feet wide in a house by themselves, but they are not doing well. The soil is clay composted with rotted manure. The roses were planted July 20 and produced an abundance of good blooms and foliage in September and October, but very weak stems. Liquid fertilizer, prepared from horse and cow manure, was applied fairly strong October 22 and November 15. The plants are not growing as they should and produce only a small amount of bloom with weak stems, and they are also dropping their foliage. I have watered and sprayed as freely as cloudy weather would permit. Night temperature 50° to 56°. Please advise as to the course to pursue in order to get the best results from these plants. H. J. S.

From the description I should imagine that "H. J. S." is overfeeding his roses. If they were planted in six inches of soil on July 20 they certainly cannot have occupied all that soil in time to have been fed with liquid manure by October 22 or November 15 as stated above. From the character of the compost employed, they certainly have an abundance of food, providing they get sufficient water, to have lasted them up to the middle or end of January before any additional stimulant should be given to them. I think it would be advisable for "H. J. S." to withhold stimulant in every form and simply water his plants carefully when they need it, giving an abundance of air during all favorable opportunities. The aim should be to get the plants to produce, strong, sturdy growth; when once they do this they will then produce better stems. Of course there may be other reasons why the flowers do not have good stems; nematodes working at the roots may have something to do with it, but of this I cannot say without examining the plants. With a night temperature ranging between 50° and 56° there is no reason why the plants should not make vigorous growth and good stems, providing their attendance is in accordance. JOHN N. MAY.

ROSE MRS. MORGAN SHORT STEMMED.

ED. AM. FLORIST:—I have been growing the Morgan rose several years and can not get it with stems long enough to suit me. Mr. John N. May has had fine samples on exhibition from time to time. How does he do it? Is the Morgan better if carried over two or three years, or does it need a very heavy clay soil? Does it make longer stems if grown warmer, say 60° at night? J. V. C.

My experience with this variety is that it requires a little more water than almost any other rose grown for winter forcing. It would not improve his stock to plant them in a heavy clay soil; in fact, the best soil for them is a medium class of loam with plenty of manure mixed through it and a night temperature of about 55° or 56°; then they can get the full size of the flower with a good many of them producing stems from fifteen to twenty inches long. Of course there are always some short-stemmed flowers on a variety that produces as freely as this one does. It can be carried over a second year just as any other forcing rose, but requires careful handling



BEGONIA GLOIRE DE LORRAINE NANA COMPACTA.

in the summer to prevent the stems shriveling, otherwise the plants would suffer badly and probably a good many of them would die, as it is a variety produces soft, pithy wood and would not stand the kind of drying off that producing harder wood. Otherwise it can be grown just as well the second year as the first. JOHN N. MAY.

WITH THE GROWERS.

DAILLEDOUZE BROS., FLATBUSH, N. Y.

Possibly there may be somewhere else such carnation excellence as is to be found at the establishment of Dailledouze Brothers at Flatbush in the outskirts of Brooklyn, but if so it has not been my pleasure elsewhere to see stock in such perfect condition. Such health, such strength, such perfection of culture shows the master hand, and the result of years of experience is reflected on every side in the wonderful standard to which everything has been brought. It will pay any man who is interested commercially in carnation culture to visit this perfect home of the divine flower and see its possibilities.

If the American Carnation Society was to have met there on the day of my visit nothing could have been done to make the place more inviting. There was not a speck of rubbish or dead leaves anywhere in sight. Even the ash walks had been freshly raked and felt as soft as carpet to the feet. This condition of affairs, I am told, though not by the proprietors, is usual. Such neatness would put to blush many a city retail establishment. There are twenty-seven houses in all. Their last range of five structures 200 feet in length have side lights thirty inches in height with no sill at the eaves, the glass of the roof simply overlapping the sides. This makes the interior practically as light as outside and insures the best possible results. The ventilators are alike on both sides of the houses, with screw lifts every fifty feet. The heating is by means of hot water under pressure, and the system is considered much superior to steam. Various supports are used for the plants, the plain way of stretching wires the length of the beds with strings across between the rows being considered as good as any and much less expensive, although the plants are not quite as easy of access.

The variety most noticeable was Mrs. Bradt, with its tremendous 4-inch flowers and good quantities of bloom. Next most striking was White Cloud, Mr. Dorner's new white, which, with its enormous quantity of bloom, was, indeed, a veritable snow cloud. Plants standing side by side bore from three to five open flowers each. It certainly looks a winner. Mrs. Joost also looked well and was blooming away like Scott, with a larger flower and almost the same color. Victor was also fine and has done splendidly all fall. Scott was probably the most extensively grown and was in great perfection as was also Daybreak and Flora Hill, the latter having done splendidly all the season, though at this time a little off crop. Hector is grown in quantity for red, Eldorado for yellow and Mayor Pingree for fancy.

There were a number of new kinds—in fact all the promising ones were on trial—and, while a few looked as if cuttings were being taken, the majority were failures. Several seedlings of their own were noticed, one a fine large deep pink, and a white sport of Mrs. Bradt, which, if it continues to hold the color, should prove valuable.

At the time of my visit, the week before Christmas, every house seemed right for a full holiday crop of flowers that would grade very high. Their cold room for keeping stock over night is above ground and is built at the rear of the wagon shed so that boxes are loaded without any risk. The room is kept at about 45° by admitting air from outside, no ice being used.

The houses are kept under culture the entire year with only a few days rest during the summer, when the old plants are renewed and the soil changed. Painting of the sides up to the first pane of glass above the eaves is done each year at this time and the entire houses are similarly treated every two years. The benches are whitewashed as soon as cleared of soil and everything done to the other parts of the house, under tables and elsewhere, to sweeten it and render it as clean as possible. ROBERT KIFT.



JAMES HARTSHORNE.

A Successful Grower.

It is doubtful if any man, and certainly none of his age, has done more for the carnation than has James Hartshorne, to whom must be credited the superior quality of the product of the Chicago Carnation Company.

Mr. Hartshorne was born in Shropshire, England, thirty years ago. He came to America in 1888, locating at Boston, but going shortly to Exeter, N. H., to become gardener to the late Charles Burley. In 1892 Mr. Hartshorne came to Chicago with a view of participating in the floricultural work at the World's Fair but he was tendered an excellent offer by John C. Ure at Argyle Park, where his success with carnations did much to enhance the already excellent reputation of that establishment. Two years ago Mr. Hartshorne became head gardener to H. N. Higinbotham, who has a fine residence on Michigan avenue in Chicago and an estate of 1500 acres just outside of Joliet. It was Mr. Hartshorne's recognized proficiency as a carnation grower which lead to the organization of the Chicago Carnation Company and the construction of its model range of houses upon the Higinbotham property.

Mr. Hartshorne is a member of the Society of American Florists, the American Carnation Society, the Chicago Horticultural Society and the Chicago Florists' Club and takes an active interest in the work of each.

Plants Versus Holiday Cut Flowers.

There are, no doubt, many readers of the AMERICAN FLORIST who, like myself, have been accustomed to regard Mr. Herr as a floricultural oracle, and who were greatly surprised at his views expressed in the issue of this journal for January 7.

The storemen have to buy and sell cut flowers more or less every day in the year and, while they try at all times to obtain a fair price for their goods, they cannot afford, at Christmas, Easter or any other time, to make their prices so high as to divert custom to other florists or, as often happens, to altogether other channels. It is a well known fact that a very large proportion of the plants and flowers sold at Christmas are purchased as presents and it is often easy to dissuade the buyer and cause him to decide upon some article purely utilitarian.

Very few retailers of experience would attempt to push the sale of cut flowers at Christmas for the reason that they have already been pushed to the limit and at this season there is not enough difference between the wholesale and retail prices to leave a fair margin of profit. On the other hand a retailer can procure a holiday assortment of palms, ferns and flowering plants at prices but little above the usual figure for such stock and can, by reason of quick sales, afford to dispose of them at about the every day figures, thus giving the customer full value for his money and insuring satisfaction.

Whether or not the retailers have put plants to the front, there has for the past two years been a rapidly increasing call at Christmas for well grown specimens. The tide is running that way and the retailer who wishes to keep up with the procession must not attempt to stem the stream, but ride upon its crest. Roman hyacinths and Paper White narcissi sold well in pots and pans at Christmas and brought good prices, while as cut flowers there was scarcely any sale for them.

Mr. Herr tells us of carnations bought for $1 a hundred and sold at that rate per dozen. There is quite a large number of storekeepers who would like to locate where that can be done and if Mr. Herr will point out the spot I will warrant that some more liberal fellows will embark in business there and pay him the share of the proceeds which he thinks is rightfully his due I have often seen carnations which cost $1 a hundred retailed at 15 cents per dozen, but for 75 cents or $1 never. J. T. ANTHONY.

Helpful Reminders.

As many florists have not had experience with acacias a few hints as to their value will be acceptable. The color of flower is a most desirable yellow, and it is a plant that will grow to perfection in a house of moderate temperature and bear bloom in abundance that you can cut during a period of four weeks. In a large house A. pubescens can easily be grown with branches ten feet long for decorations or in smaller houses A. Riceana can be grown. The more shrubby varieties are best for pot plants. They want plenty of water, rich but porous soil, and a temperature from 40° to 50° from now until spring.



PRIMULA FORBESI.

One of the most satisfactory plants for Christmas, either for cutting or pot plants, is the old fashioned Begonia incarnata, with its large clusters of pink flowers. This is the time to propagate for next December.

A very attractive blooming plant just now is Euphorbia Jacquiniæflora with its long slender shoots with bright orange scarlet flowers along the upper side and delicate foliage interspersed. It is practicable to put in cuttings now which will root and yield a top cutting by June. This will give you one single shoot and one branching plant.

This season's experience with Cypripedium insigne has again proven it to be one of the most profitable plants for a florist to grow. Shifting or separating is best done now before spring growth begins. Ordinary 6-inch pots are considered most desirable and those that are well filled now separate into two or three parts; fill the pots half full of broken crocks with a little sphagnum moss on top; then add a good garden loam with peat and some decomposed horse manure. Be careful to get the soil well in between the roots and keep the foliage well above the soil; cover the pots with sphagnum to prevent rapid evaporation.

The young growth of leaves which is now starting beside the flower buds of azaleas should be pulled off as they rob the Easter bloom of substance and depreciate the value as a blooming plant. After flowering this growth should be encouraged. C. B. W.

SOUTH HANOVER, MASS.—Geo. F. Sylvester has been appointed postmaster.

Primula Forbesi.

The American name for this is baby primrose, which describes it exactly, as it is a minature primula not unlike P. obconica, belonging apparently to the same group. It is a much more free bloomer, however, and the smallest plants commence to send up flowers as soon as they are large enough for a 2-inch pot. When fit for a 4 or 5-inch pot they carry from one to two dozen flower spikes with one or two tiers containing from twelve to twenty florets each. The color is pale lavender to lilac. The foliage is delicate and graceful, somewhat fern-like in appearance and the flower spikes grow quite straight from six to twelve inches above the pot and well above the foliage. The plant, which, by the way, had lost most of its foliage from frost the day the photograph was taken, as the illustration shows, makes a very pretty table ornament and wherever offered for sale has immediately entered into favor with the public. As a cut flower it also finds a ready sale and arranges well with cattleyas, the pale lavender of the orchid being almost the exact color of the primrose. K.

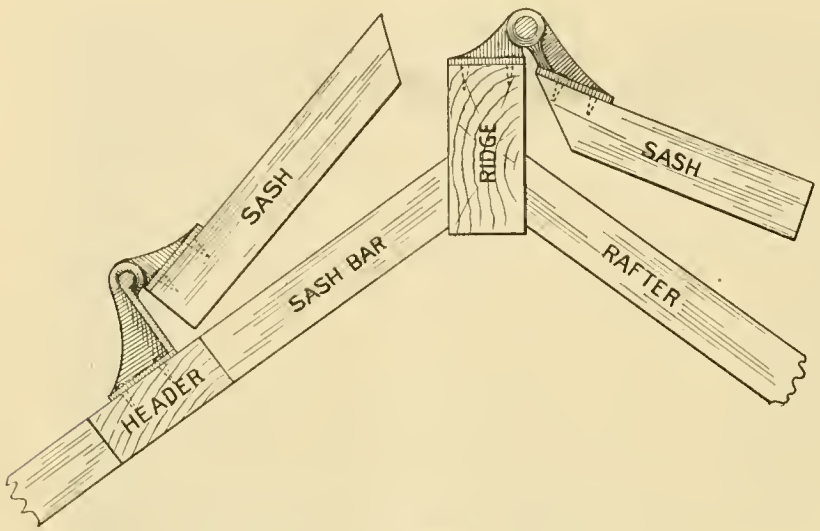
Bouvardia Humboldtii Grandiflora.

This novelty was introduced two years ago, but did not receive a dissemination in proportion to its worth. The flowers are twice as large as those of the original form; in fact almost as large as those of Stephanotis floribunda. The flower tube is especially stout, by which the breaking down, so common with B. Humboldtii corymbiflora, is reduced. The foliage, also, is of double the size of that of B. Humboldtii corymbiflora, leathery, and resembles lilac leaves. The habit is uncommonly vigorous. The plants produce their numerous, strongly scented flowers from the beginning of October to the end of December and that fact admits this new plant to the ranks of the most valuable of recent introductions. It was awarded a certificate of merit by the Royal Horticultural Society of London in 1897.—*Die Gartenwelt.*

Calanthes at Whitinsville, Mass.

Last week there was a very fine display of calanthes at the establishment of Mr. Edward Whitins, and much credit is due his gardener, Peter B. Robb, for the excellent way in which he grows them. Mr. Robb generally grows about sixty pots of C. Veitchii and a few each of C. vestita lutea and C. vestita rubro-oculata. When they come into flower the pots are stood among a lot of ferns, principally adiantums, and they make a fine sight, their beautiful long, curved spikes showing well above the dark green ferns. This year the spikes are not just as large as formerly, but they are a very even lot, and at the time of my visit carried mainly from thirty-five to forty flowers each.

I think these deciduous calanthes do not yet receive the attention they deserve, as there are few, if any, plants more suitable for decorative work during the Christmas and New Year holidays, and they make a welcome change. The gardener who has to supply a large quantity of flowers at this season would do well to have a few pots of these plants.



THE NEW STANDARD VENTILATOR HINGE.

By attending to one or two cardinal points of cultivation, there is nothing to prevent any one from growing them satisfactorily. Full cultural details have appeared frequently in these columns.

THOMAS HOWDEN.

The New Standard Ventilator Hinge.

E. Hippard, Youngstown, Ohio, has perfected a ventilator hinge which he is offering to the trade with assurances that it will give the best of results and last a lifetime. The hinge can be adjusted to any greenhouse without the aid of a mechanic. They are of malleable iron or brass and are made "right and left" and by removing one part of the hinge on the sash the sash can be removed. The hinge is so constructed that in opening and closing the ventilators it cuts the ice instead of crushing it, thereby preventing the drawing of the screws or breaking the hinge.

New York.

SPIRITED DEMAND FOR ROSES.—SUPPLY SHORT.—CARNATIONS ALSO SELLING WELL.—ADIANTUMS SCARCE.—ORCHIDS ABUNDANT.—FORCED SHRUBS COMING IN.—ANNUAL FLORISTS' CLUB DINNER.—SUPT. HENSHAW GOES TO PORTO RICO.—OTHER TOURISTS AND VISITORS.

The feature of the market for the past few days has been the light supply of roses. On certain varieties at special times it has amounted to almost a famine, yet even under such conditions inferior stock has been disposed of with difficulty. Choice material has realized good figures and the prospects are favorable for a continuance of the same. The weather has been exceptionally fine. The warm sunlight has made it possible to dispense with artificial heat during a good part of each day, has dried and warmed up the cold soil in the benches and started the roses into healthy growth and the crop of buds in sight promises an abundance of fine blooms in the near future but it is not likely that there will be any more of the right quality than the market can easily take care of for the next four weeks at least. The Greeks have been obliged to turn their attention to violets and lily of the valley almost exclusively and are promptly ordered away from the rose boxes before they can get their paws into them. Carnations, if good, also find a ready market and if of extra fancy grade sell at sight for prices that sound thriving. Orchids are in sufficient supply for all demands and at times accumulate somewhat, with values tending downwards. Adiantums are decidedly scarce. The quality averages inferior but everything goes without trouble. A bunch of orange and brown wall flowers is one florist's window attraction and among the especially pleasing things seen frequently during the past week have been branches of forced spiræas, forsythias, quinces, etc.

The dinner committee of the New York Florists' Club announces that the twelfth annual dinner will take place at Morello's, 4 W. Twenty-ninth street, on Thursday, February 9, at 7 p. m. Special attention is called to the price of tickets which, contrary to the custom in the past, has been fixed at three dollars and it is hoped that this will ensure a large attendance of members. All donations of flowers should be sent early in the day to the committee, in care of Secretary John Young, 51 West Twenty-eighth street.

B. Suzuki who has been away on a visit to Japan since last July is expected back this week, via San Francisco. He is accompanied by Takagi Shintaro, of Tokio, one of the founders of the Yokohama Nurseries who now visits America for the first time.

Samuel Henshaw, superintendent of the New York Botanical Gardens will start for Porto Rico about February 1, to inspect the flora of that island. He will be absent two months.

H. A. Siebrecht, Jr., has just returned from a two weeks trip to the far west.

Julius Roehrs, Jr., who has been for some time finishing his floricultural education in F. Sander's nurseries and elsewhere in Europe is expected home next month.

Ernst Asmus and Paul Dailledouze have been making a business trip west.

Visitors in town: B. F. Dorrance, Dorranceton, Pa.; Peter Crowe, Utica, N. Y.; H. Weber, Oakland, Md.

DANVILLE, ILL.—Frank B. Smith is making arrangements to enlarge and improve his greenhouses. They will be moved back from their present location and the ground now occupied will be laid off in town lots. A large packing house will be erected.

Philadelphia.

TRADE IS BRISK AND STOCK IS SCARCE.—FINE ROSES BRING HIGH PRICES.—CARNATIONS SELLING WELL.—PROSPECT FOR MUCH BUILDING.—INTERESTING JOTTINGS FROM DREER'S NURSERY AT RIVERTON.

Business is keeping up very well and most of the stores the past week appeared to have that hustle and bustle that is so enjoyable to all concerned, except, perhaps, to the fellow who has to stay and help when it should be his night off. Flowers are scarce; that is, good ones are. Fine Brides and Bridesmaids are bringing $12, and there are not near enough of them. Beauties are in demand, particularly the middle size, which bring from $3 to $4 per dozen. There are a few Brunners about at from $3 to $5 per dozen, but the flowers are not first class.

Carnations are selling very well, the prices being well maintained and ranging from $1.50 for Scott to $4 for Victor and other fancy sorts. Violets are much more plentiful and Princess of Wales are now very fine. Bulbous stock is getting abundant. J. W. Young's Von Sions are now coming in good shape and readily command $6.

Some growers seem to persistently smoke their houses in the late afternoon and pick flowers for shipment the next morning, a good plan if they want to be disappointed in their returns, for such stock should always find its way to the waste barrel.

Robert Craig's new house is filled with lilies, which are looking fine. Scarcely any are grown except longiflorums and there is no disease apparent as yet. The Chadbourne automatic ventilator power with a weather vane attachment to open or close the windows according to the direction of the wind, works splendidly and is, Mr. Craig thinks, a great acquisition.

We hear the remark frequently among growers that they are sadly in want of room and would not be surprised if some important additions were made to some of the larger places the coming summer. A large range will soon be added, or rather take the place of a lot of smaller houses, at the Dreer nursery in Riverton. There is an immense quantity of ferns coming on here, several houses being filled with seed pans. These are given sterilized water. Many rapid growing varieties come up in pans where entirely different kinds were sown and these are pulled out as soon as large enough, until finally the right variety makes its appearance. If this plan was not pursued the stronger sorts would have crowded out the others and they would not have grown at all. A new adiantum, Charlotæ by name, promises to be a good thing. It is what might be called a divided cuneatum, having the same size and form of frond, with one or two more divisions in the leaves. It is very pretty and graceful.

Mr. Eisele says that most of the so-called A. cuneatum grown for cutting is not cuneatum, but Raunbecki, which appears to be a stronger grower. Pteris nobilis variegata is a promising new variety, resembling a strong P. Mayi. Mr. Eisele finds no remedy so good for insects on palms as prevention and gives plenty of room and frequent syringing. Still hand washing has to be resorted to with sulpho-tobacco and other mixtures. An interesting note about kentias was that they seldom if ever attain more than seven or eight leaves; each new leaf may be larger than its predecessor, but the number to the plant does not increase. Dracæna Godseffiana is thought to be a coming useful plant as it propagates

easily and will soon be found in quantity. Livistonia rotundifolia has sold very well the past season and will be grown largely in the future. Adiantum Farleyense, a house full, looked to be growing as well as any other kind and is found to do much better in a good loam with the addition of well rotted cow manure and entirely without peat, which at one time was considered very essential. K.

Boston.

LIVELY DEMAND AND GOOD PRICES FOR ROSES.—FINAL ACT IN THE LAWSON CARNATION COMEDY.—THE "LAWTON" ALSO PLAYING TO CROWDED HOUSES.—FUNNY NEWSPAPER YARNS.—DEATH OF W. J. GALVIN.

Business is good. Not for several years has the market price of roses been maintained with such steadiness for a period of equal length as during the past month. In fact prices are very near the Christmas mark to-day and there are no signs of any immediate abatement. Brides lead the list, as was the case last week, and the heavy call for flowers for funeral use continues. Were it not for the bulbous flowers such as freesias, hyacinths, Paper White narcissi and lily of the valley, which are to be had in any quantity, there would be some old-fashioned soaring done. Carnations are in the same good fortune as the roses, and ferns are getting scarce, but violets are still in purgatory.

The rather nauseating controversy over the Lawson carnation seems now to have been brought to an issue that ought to be satisfactory to those directly interested and eminently gratifying to the public, who have been surfeited with the overdone sensation. An agreement was reached on Monday between Messrs. Fisher, Galvin and Lawson, as grower, promoter and "angel" respectively, whereby it is announced that Mr. Lawson has, "in consideration of $30,000" had transferred to him all of the stock of plants and all of the flowers of the Mrs. Thos. W. Lawson carnation, the disposition of which is to be exclusively Mr. Lawson's hereafter. "In consideration of $30,000" may mean many things or nothing, but that is probably all we shall ever find out. The congratulatory articles in the daily papers over the statement that the wonder is not to be permitted to go outside of Boston make amusing reading. The title is to be "defended against the threatened attack of Mr. Higinbotham" and the carnation is to be a prominent feature in the public garden next summer. A bed of carnations will make a good companion attraction for the "bulbul" which one reporter advises be added to Supt. Doogue's collection of pets. While all this is going on, one of our shrewd florists of Hebrew lineage, with characteristic enterprise, has fixed up his window with pink carnations labeled "The New Lawton Pink," and things are coming his way fast. One newspaper correspondent who ought to know better romances about high cost flowers in general and tells of the rose Her Majesty, which was renamed the Bennett and from which not a single flower was ever sold! Verily there is plenty of civilizing work yet ahead for the Massachusetts Horticultural Society, the Gardeners' and Florists' Club and the newly formed horticultural club to do.

On Saturday W. C. Coburn made a fine display of Chinese primroses at Horticultural Hall. J. E. Rothwell exhibited two hybrid cypripediums, C. Lucienianum and C. signatum. Mrs. Gill showed seedling carnations and C. E. Richardson a plant of Azalea Mattapan.

News has been received of the death at Havana, on January 7, of Wm. J. Galvin, youngest son of John Galvin and brother of Thos. F. Galvin. Deceased was 36 years of age. His body will be brought home.

Mrs. Wm. Love died at her home in Dorchester on January 20.

Chicago.

A WEEK OF BRISK BUSINESS.—A GENERAL SCARCITY OF STOCK.—VIOLETS PLENTIFUL.—PROSPECT OF A FAILURE OF THE FERN SUPPLY. — PROMINENT FIRMS TO REMOVE.—PERSONAL JOTTINGS OF INTEREST TO THE TRADE.

This has been another week of large demand, short supply and stiff prices. There has been a particular scarcity of Bride and Bridesmaid roses and of white flowers generally. The shortage of roses has thrown the bulk of the buying on carnations, so that a very large cut has been absorbed and a scarcity is apparent in this line, prices having ranged from $1.50 to $5. Bulbous stock has sold very well and the only over supply has been of violets, which now retail at 25 cents per bunch, with street men disposing of the remnants of each day's stocks at any figure procurable.

Ferns will be $2 per thousand next week and a further advance will not be unexpected. It has developed that the large quantities in cold storage in the east are not keeping and a considerable shortage is to be the result. Chicago's principal source of supply during the winter is Hinsdale, Mass.

At the last club meeting F. Hills showed some fine mignonette and a vase of Argyle. Wieland's Evanston was shown and so was Pink Beauty, grown by Jacob Russler. It is a fine seedling from Tidal Wave and Daybreak and was awarded a certificate. Mr. Russler also exhibited La France violet, of which he thinks highly.

Because of the expiration of the lease under which the French & Potter Company sublet space at 88 and 90 Wabash avenue three leading firms, Bassett & Washburn, Kennicott Bros. Co. and A. G. Prince & Co., must on May 1 remove to other quarters.

During their stay in Chicago Messrs. Asmus, Dailledouze, Joy and Kuhl visited, among other places, the establishments of Bassett & Washburn, at Hinsdale, Reinberg Brothers, at Bowmanville, and the Chicago Carnation Company, at Joliet, to which latter place they were escorted by President W. N. Rudd and P. J. Hauswirth.

A. C. Spencer has this week been deluged with catalogues of cradles and baby carriages, much to the merriment of his friends, but not in the least to his discomfiture. He's very proud of that daughter.

Wm. Dittman, whose services were in demand in Chicago and elsewhere, has concluded to remain in charge of the houses of the South Park Floral Company at New Castle, Ind.

Mary L. Price, of Chicago, has been given a patent upon a flower pot with a deep, covered saucer which holds both soil and water and provides a form of sub-irrigation.

White lilacs are selling well at Vaughan, McKellar & Winterson's at $1.50 per dozen. They are also handling some very fair white violets.

Mrs. W. E. Lynch and two children have been on the sick list for two weeks, but are not dangerously ill.

Paul Redieske has been elected superintendent of Lincoln Park at a salary of $3,000 a year.

John Degan is making a western trip in the interest of Vaughan's Seed Store.

Mr. and Mrs. Walter Kreitling celebrated their fourteenth wedding anniversary one day last week.

Blanche Ferry sweet peas made their appearance at Hunt's this week.

St. Louis.

STOCK MORE PLENTIFUL AND VIOLETS ARE A GLUT.—CARNATIONS AND ROSES FIRM. —FLORISTS PLAY EUCHRE.

Several bright days have had quite an effect on the market as far as cut stock is concerned. The predicted glut of violets has materialized and despite the enormous quantity sold every day at the reduced price at which they are offered, quantities are lost at the commission houses and by the growers. To add to the quantity of home grown stock we have also to reckon on the southern shippers, who are sending in large shipments, of both single and California.

Carnations have become a little lower in price, but scarcely enough to say they have fallen. Roses are still firm and sell up quite clean. Bulb stock has become more plentiful and is not moving as well as could be wished. Von Sions, and the single narcissi from the south are the latest stocks to make an appearance at the commission houses.

The progressive euchre contest held last Friday evening under the auspices of the St. Louis Florists' Club for the benefit of the parties winning prizes at the Flower Show, was a decided success, although at present the exact amount realized is not known. A most enjoyable time was the result and the prizes awarded were, in many instances, very handsome. Many of them were donated by the leading flower dealers and growers. R. F. T.

Cincinnati.

BUSINESS HAS IMPROVED AND STOCK DOES NOT EXCEED THE DEMAND.—ROSES ARE SCARCE.—A SPORT OF SCOTT.—CLARA BARTON NOW THE MAID OF HONOR.—VISITORS.

Business has improved, and with the exception of violets and bulbous stock the demand equals the supply. Roses are rather scarce, good Brides and Bridesmaids having sold as high as $10 to $12 per 100. Harrisii lilies are good stock and readily fetch 15 cents, but callas seem to move slowly. Tulips are commencing, George & Allen having the first in. This firm is cutting some fine new crop lily of the valley with stems eight inches long. Carnations have not been in over supply.

Sunderbruch's Sons recently had on exhibition at the Cincinnati Cut Flower Company's place a vase of a new crimson carnation, flower and stem identical with that of its parent, Wm. Scott. It originated with them last year and they claim it to be a good thing. Scott seems to be a sporty sort of a fellow.

Messrs. Ernst Asmus, Paul Dailledouze and E. G. Hill were in this city the past week. They examined Hoffmeister's new rose, Miss Clara Barton, which has been re-christened Maid of Honor.

Robert Betz, gardener at the city water works greenhouses, reports an increase in his family; it's a boy. Ben George became a happy father the same day, January 23; a girl.

Mrs. C. C. Murphy is seriously ill with pneumonia. H. SCHWARZ.

THE AMERICAN FLORIST

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No Special Position Guaranteed.

Discounts, 6 times 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

Cover space sold only on yearly contract at $1.00 per inch, net, in the case of the two front pages, regular discounts applying only to the back pages.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

PROF. D. T. MACDOUGALL, of the University of Minnesota, has been chosen director of the laboratory of the New York Botanic Garden.

THERE seems to be an unusual demand for white violets (flowers) in certain sections this season. Those who have them for sale should advertise the fact.

VERY attractive calendars have reached us during the past week from the American Rose Company, Washington, D. C., and Mrs. E. A. Williams, Pittsburg, Pa.

THE death rate in the trade continues painfully large, and complaint of the raids made upon health by the grip comes to us from many widely separated sections. The sufferers have our heartfelt sympathy.

THE stockholders of the Vance Boiler Works, Geneva, N. Y., re-elected their officers, who in 1898 tripled the business of the company and declared a six per cent dividend. J. R. Vance is president and E. M. Winnie secretary and manager.

I. E. COBURN, of Everett, Mass., sends us some blooms of Primula Sinensis, which for size, variety and richness of coloring would be hard to improve upon. If the flowers are freely produced well above the foliage, the strain is certainly a good one.

CATTLEYA BOWRINGIANA LADY WIGAN has recently received an award of merit from the Royal Horticultural Society of England. It is in color alone that this variety differs from the type. The sepals and petals are lilac with a rose suffusion; the lip is reddish lilac on the front lobe, velvety crimson in the center, with a pale primrose throat.

MR. J. D. THOMPSON, of the Chicago Carnation Company, Joliet, Ill., assures us that during the present week he tendered $5,000 for half the stock of Peter Fisher's carnation, Mrs. Thos. W. Lawson, but that Mr. Lawson offered a sufficiently larger amount to enable him (Mr. Lawson) to retain the stock and thus take it out of the market altogether.

The 1899 Directory.

The new edition of the American Florist Company's Directory of florists, nurserymen and seedsmen is now ready. As in last year's issue, the names are first arranged by states and post offices, and a second list contains all the names in their alphabetical order. The various lists have been thoroughly revised, and the names and addresses of 1336 new firms appear in its pages for the first time. Price $2.

Fires.

BATAVIA, N. Y.—Eugene Ruhlman's barn and greenhouses burned January 20, causing a heavy loss.

BURLINGTON, VT.—The explosion of an oil heater in the greenhouses of C. P. Jones did considerable damage to stock January 21.

Greenhouse for Growing Cut Flowers.

ED. AM. FLORIST:—Please give the cost of a greenhouse 20x60 feet. The ground is level on which I expect to build and I intend to heat by means of hot water. As I expect to grow cut flowers mostly, you would also oblige by stating whether a three-quarter or even span would be best for my purpose. R. C. F. K.

The cost of the greenhouses 20x60 feet, will depend largely upon the materials used and the care taken in the construction. A well built house, constructed of cypress and with double strength glass and heated with hot water, complete with wooden benches, will cost not far from $700 for labor and materials. If only one house is to be constructed, I would recommend an even span, as this can be used for growing almost any of the crops. It answers well for roses, although many growers prefer a three-quarter span. L. R. TAFT.

Diseased Callas.

ED AM. FLORIST:—Please state through your columns how to treat calla tubers attacked by disease or rot at the ground line? Our tubers were from California and looked fine, large roots. But they commenced to rot at the ground line and the disease has spread so that we have lost at least 300 of them. We have them planted in pots and solid bed. We were never bothered before with this disease. M. S. V.

The callas are affected with a rot that develops in the crown, where the leaves join the corm. The germs of the disease are doubtless inside when the plants are set out, and came from the region where they were last grown. The disease is known to occur in California, but does not seem to have become established east of the Rocky Mountains. No remedy has yet been suggested. Every plant with the soil about it should be removed as soon as the disease shows, and thus keep healthy plants from contracting the disease. J. C. ARTHUR.

Steam Boiler for Hot Water.

ED. AM. FLORIST:—Can a steam boiler with flues be used economically as a hot water heater? Will a steam boiler used as a hot water boiler heat the water just as fast or faster than a cast iron boiler? E. S.

Fairly good results can be obtained with steam boilers for hot water heating, especially if the tubes are of medium or large size. No general comparison can be made between steam boilers and cast iron boilers as to the rapidity with which they will heat water, as this will vary with the construction of the boilers, but as a rule, fully as good or better results can be secured from the former, so far as the actual heating is concerned, but cast iron boilers are rather more desirable than those of wrought iron, especially when the latter are constructed of gas pipe with screwed joints. Ordinary steam boilers with heavy tubes riveted into the boiler heads will be found quite desirable. L. R. TAFT.

Greenhouse Building.

Charleston, Ill.—Miss Etta Nott, one greenhouse.

Philadelphia, Pa.—Geo. Kufler, greenhouse 22x45.

Wantagh, N. Y.—P. W. Behrens, smilax house 23x101.

Dracut, Mass.—J. McManmon, one greenhouse 20x100.

South Portland, Me.—Niles Nelson, two commercial houses.

Middlefield, Conn.—Angus Bros., one greenhouse.

Carlisle Pa.—F. C. Bosler, range of conservatories.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

The Hoffmeister Floral Co., Cincinnati, O., registers new rose Maid of Honor, a sport from Bridesmaid, deeper pink in color.

This is the variety which the Hoffmeister Floral Company has been advertising for introduction this season under the name of Miss Clara Barton, but having been apprised of the fact that another firm had previously registered a rose under this name they, out of deference to the rules of the S. A. F. regarding the registration of new plants, and with the best interests of the trade at heart, decided to adopt the new name, as above indicated, for their rose. It is but justice to the Hoffmeister Floral Company to call attention to the fact that they had already advertised and catalogued the rose as Miss Clara Barton and that the change is made by them at considerable expense and embarrassment. Their courteous act is entitled to especial recognition by the trade and particularly by the members of the S. A. F., in whose estimation the name Maid of Honor should stand, under these circumstances, as singularly appropriate.

WM. J. STEWART, Secretary.

Toronto.

MEETING OF AGRICULTURAL SOCIETY CALLS OUT MANY GARDENERS AND FLORISTS.—OFFICERS ELECTED.

The City of Toronto Electoral District Agricultural Society held its annual meeting, for the election of officers for 1899, on January 18. The gardeners, florists and seedsmen were well represented.

The treasurer's statement for the year showed the total receipts to have been $646.50, and the expenditure $512.40, leaving a balance on hand of $134.10.

At the chrysanthemum show of the Toronto Gardeners' and Florists' Association held in November, 1898, the society awarded prizes as follows: For plants, $67; cut blooms, $17; floral designs, $16.

The following officers were elected: President, Geo. Vair; first vice-president, P. G. Close; second vice-president, B Saunders; solicitor, W. G. McWilliams; secretary and treasurer, J. P. Edwards. Directors, Jno. Withrow, Robert Davies, Walter S. Lee, R. J. Score, S. E. Briggs, Wm. Christie, Jas. Croker, Capt. W. F. McMaster, John Chambers. Auditors, Jno. Gouinlock and Thos. McQueen.

The Toronto Horticultural Society held a directors meeting the same evening which was attended by nearly all the officers, and a number of valuable suggestions were enunciated for improving the society and increasing its popularity and membership for 1899.

The weather is very changeable, and business quiet. S. P.

Grand Rapids.

FOURTH ANNUAL BANQUET OF THE FLORISTS' CLUB.—VIOLETS AND IMPORTANT BUSINESS FOR THE FEBRUARY MEETING. —MUCH ILLNESS. — BUSINESS GOOD. — STOCK SHORT.

The Florists' Club held its fourth annual banquet Tuesday evening, January 24 at the Eagle hotel. There were about fifty present, as sickness prevented the attendance of many. The tables were nicely decorated with carnations and roses and a dinner worthy of the occasion was served at 8:30. After dinner, J. A. Creelman, who served as toastmaster, called upon President Stover, who responded with a few appropriate remarks, after which came a delightful programme of music and recitations.

The festivities closed with the president announcing that the next meeting will be an important one as there will be interesting business on hand. The meeting will be held the first Tuesday in February and violets will be the subject for discussion.

Geo. Hancock & Son, of Grand Haven, have tendered the club an invitation to hold its carnation meeting at their place and will undoubtedly be accepted at the next meeting.

Geo. F. Crabb and Eli Cross, with Crabb & Hunter, are ill with pneumonia and were unable to attend the banquet.

Nearly all of the florists report trade very good since the holidays and some of them do not have enough carnations and roses to supply their trade.

CHADWICK.

Lenox, Mass.

At the meeting of the Lenox Horticultural Society on January 21 there was an interesting discussion on vegetables, opened by Chas. R. Russell. The exhibition tables contained some good things, among them being John N. May's new carnation, Melba, which pleased the members very much and received a certificate of merit, and a vase of twenty-five long, handsome spikes of Eucharis Amazonica from Wm. Griffin, which received a similar award. Mr. Griffin also got a diploma for a fine collection of carnations.

CAMBRIDGE, MASS.—Shaw Brothers have sold their business to John Husband, a florist of long experience, who already has an extensive establishment at Payson Park, Belmont.

OBITUARY.

G. A. MILLS.

George Augustin Mills who organized the Melrose Amateur Gardeners' Society and to whose efforts its success has been mainly due, died on January 2, at Melrose, Mass., aged 37 years.

VALENTINE BURGEVIN.

An octogenarian florist of Kingston, N. Y., died January 21 after a long illness. Valentine Burgevin was born in Mayence, Germany, New Year's day 1819. He came to America a young man and had resided at Kingston for more than half a century. It was forty years ago that he built his first greenhouse. Besides his wife Mr. Burgevin leaves a daughter and four sons, Paul, of Portchester, N. Y.; George and David, who have been in charge of his business for some time, and Julius, the Broadway florist.

Milwaukee.

Klokner's window looks quite ruddy with the display of carnations. To have the best carnations in town seems to be more of hit than the best violets now.

Mr. Adam Zender, one of the largest growers who supply this market, spent a day here last week exchanging compliments with the several florists who have become quite familiar with his stock.

Every scrap of bouquet green has been gathered and made use of. A large number of cycas leaves have been used lately.

C. B. W.

B. F. ALLEN and A. E. Hirschfelder have been elected directors of the Hawks Nursery Co., Rochester.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1899 is entitled to a five-line WANT ADV. (situations only) free to be used at any time during the year.

SITUATION WANTED—By a strictly sober florist; capable and willing, and the best of recommendations. Address E J C, care American Florist.

SITUATION WANTED—By single man age 40 years; 25 years' experience, roses and general greenhouse work. Address G G, 401 Girard Ave., Philadelphia.

SITUATION WANTED—As salesman for nursery stock, thoroughly understand the business; best references; state terms. J T, BOX 66, Shoustown, Pa.

SITUATION WANTED—By practical gardener and florist. German, 17 years' experience. Address GARDENER 1019 N. 4th St., R. No 2, Philadelphia, Pa.

SITUATION WANTED—By an experienced rose grower to take charge of commercial place, in Chicago preferred. Address ROSE, care American Florist.

SITUATION WANTED—First-class all round florist, sober, energetic, willing Can take full charge if necessary; life experience. Address FLORIST, care Box 70, Derby, N Y

SITUATION WANTED— By thoroughly practical gardener (English). Private establishment preferred. Wages $15 per week: 12 years; character. Address ENGLISH, care Am. Florist.

SITUATION WANTED—By florist with life experience in growing good cut flowers and plants; age 35, single. Good references; Chicago or vicinity preferred. Please state terms. Address A B, Box 231, Lake Forest, Ill.

SITUATION WANTED—By a first-class grower of roses, carnations, chrysanthemums and general stock; good propagator; understand budding and grafting; 29 years of age, single; best of references. Address N O, care American Florist.

SITUATION WANTED—As working foreman by German age 35, single, 21 years' experience growing roses, carnations, violets, palms and general stock; good propagator. Best references from Europe and this country. Address M K, care Am. Florist.

SITUATION WANTED—By A1 cut flower grower of roses, carnations, 'mums specialty; successful propagator, capable of taking charge of whole place or section; 25 years' experience, best references; good wages expected. RELIABLE, care Am. Florist.

SITUATION WANTED—By all round florist, good grower of roses, carnations, etc., as foreman or to take section of houses; have had charge of 16,000 ft. of glass past season; at liberty Feb 28; age 26. State wages without board; reference first-class. Address C S, care American Florist.

SITUATION WANTED—Specialist in orchids, palms, ferns and foliage plants is open for a first-class situation. Capable of taking full charge of commercial or private place. Have been in full control of present place nearly 5 years; have had practical experience with various first-class establishments in England, France, Germany, and United States; can furnish best of references; single. D M. OLSEN, 1615 Clinton Ave., Minneapolis Minn.

SITUATION WANTED—By gardener and florist between January and March on gentleman's place or estate; 22 years' experience, 11 Germany, Holland, England and 11 years in this country; 3 years reference as head gardener in one of the largest places of this country. I am able to take care of any kind of greenhouse, landscape, vegetable or flower garden. At present I am on one of the largest estates in the state of New York. No object to destination, Chicago or New York preferred. Married, no children, age 35, nationality German. Address FLORIST, care American Florist.

WANTED—Salesmen to sell flower pots as a side line on commission. CAMBRIDGE TILE M'F'G CO., Covington, Ky.

WANTED—Two young men to work in rose houses. State experience and wages wanted with board. Address BOX 577 Peoria, Ill.

WANTED AT ONCE—A single man who can grow seedlings and fine pot plants Address with references STUART & HAUGH Anderson, Ind.

WANTED—A good florist, one willing to work. Board and lodging furnished. Would prefer to sell half interest L. E. CARTER, Shreveport, La.

WANTED—A man for general greenhouse work. With some experience and able to fire steam boilers; $9 a week. Address with references WM. KIRKHAM, Maywood, Ill.

WANTED—To know the whereabouts of Sebastian Simon, of Alsace, Germany, said to have worked for L. Schmutz, Flatbush, L. I. CHAS UFFLER, 1708 Brown St., Philadelphia.

WANTED—Good reliable florist to take full charge of five houses Must know how to manage roses and carnations Wages $25 per month and board Address with references H M, care Am. Florist.

WANTED—A good carnation, violet and bedding stock grower; also lettuce and general stock; must be honest and good worker; prefer married man. Address J. H. LAHDER, Fredonia, N. Y.

WANTED—A thorough, reliable cut flower salesman and designer, for retail store Must be reliable and honest with A1 references. Address M. care Kennicott Bros. Co., 88 Wabash Ave., Chicago.

WANTED—First-class rose and carnation grower immediately to take charge of 6 houses. Must be single State lowest wages with board, age and your telegraph address JOHN L. WYLAND, De Haven, Pa.

WANTED—Two men thoroughly acquainted with making soft wood cuttings of shrubs and roses, rapid in potting and familiar with greenhouse work. Also competent foreman for our lower nursery and a boy to put in cuttings; all must be strictly temperate. THE ELIZABETH NURSERY CO., Elizabeth, N. J.

WANTED—A practical florist single, to take charge of 8 houses. Must be a good grower of carnations, chrysanthemums and violets and propagator. State lowest wages accepted with room and board at hotel Must be sober and reliable and have best of references. Address NICHOLAS AMOS, Crestline, Ohio.

FOR SALE—At a bargain if taken at once, 34 boxes of 12x14 glass. Add ess DAN NELSON, Butte, Mont.

FOR SALE OR RENT—A well established florists business. Address GOOD OPPORTUNITY, care American Florist.

FOR SALE—Five greenhouses, house, barns, etc.; five miles from Denver Further particulars Address BARNES, 1621 Wilton St., Denver, Col.

FOR SALE—Five greenhouses, five building lots and barn, 25 miles from New York in growing city. Good retail and wholesale stand; cheap. E L, care Am. Florist.

FOR SALE—Four greenhouses nearly new. Splendid retail stand in residence district on paved street leading to cemetery, easy terms; must retire account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

FOR SALE—Located in a live city of 8,000 population, an up-to-date greenhouse establishment of nine houses in first-class shape and in full crop. Address or apply to J. C VAUGHAN, Box 688, Chicago.

FOR SALE VERY CHEAP—A fine greenhouse establishment of 10,000 sq. feet of glass in a booming city of 18,000. Very little competition Everything in fine condition. A well paying investment. Good reasons for selling Address BARGAIN, care American Florist.

FOR SALE—Public sale of real estate, greenhouses and well established florist's business, Thursday, February 9, 1899. I will sell out my entire greenhouse plant including dwelling. Sale to commence at 2 o'clock p. m. Address W. R. SHELMIRE, Avondale, Chester Co., Pa.

For Sale at a Sacrifice.

On account of death of proprietor, 1¼ acres of land, 25,000 feet of glass in good repair, fully stocked with the best varieties of Roses, Carnations and Violets. One mile from city of 80,000, where there is quick sale for all stock grown. Trolleys pass the door. For particulars address

S. E. H, 113 S. 5th St, Reading, Pa.

FOR SALE: A first-class, modern greenhouse property that has netted 25 per cent on price asked and can be made to double that: in a city of 10,000 people No opposition and only 20 miles from a city that will have the best World's Fair in 1903 that has ever been held in America. If you mean business write at once for a description of same. Positively no better greenhouse property has ever been offered for sale. Address

Mo., Care American Florist.

FOR SALE.

Two greenhouses 4000 ft. of glass with stock and tools. Will rent or sell ground; 20 minutes from Philadelphia. Particulars at H. F. MICHELL, Seedsman, 1018 Market St, Philadelphia, Pa.

Buffalo.

FINE TRADE BUT A SHORT SUPPLY OF FLOWERS.—TULIPS AND ALL BULBOUS STOCK QUITE USEFUL.—HARRISII BULBS DISEASED.—NOTES.

Trade for the past week has been rather brisk, especially in funeral work. Carnations are rather scarce and prices rather high. Narcissi and Romans are in abundance and are found very useful in design work. Roses are only fair and the supply very limited. American Beauties are coming in quite plentifully, but have not very long stems. Tulips are becoming more plentiful and help to take away that vacant look noticeable in the store windows since Christmas. As customary, the trade demands Harrisii lilies, but every one growing them around here has diseased bulbs, and the supply is very small.

Palmer & Son are cutting some very fine Flora Hill that find ready sale and retail at good prices.

S. A. Anderson has been in line with the grip, the only florist who has had it.

Recent visitors were: H. J. Wise, East Aurora, N. Y.; A. Ringier, Chicago; Edward Fry, of Rochester, N. Y.; Charles A. Hart, of Cleveland, Ohio; Max Beattus, of Dayton, Ohio, and "Billy" Boas, from Philadelphia. W. A.

NEWPORT, R. I.—The Newport Horticultural Society is arranging for a ball, to take place on February 1 at Masonic hall.

BLUE POINT, N. Y.—George T. Schuneman has sold out his range of 50,000 feet of glass devoted to violets and will enjoy a three months' tour of Italy and Germany. Upon his return to Long Island he is planning to establish at Irving Place, Jamaica, a thoroughly modern range of not less thau 100,000 feet to be devoted entirely to Marie Louise violets.

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CINCINNATI, Jan. 26

Roses, Beauties, select	40 00@50.00
" " medium	15 00@25 00
" Brides, Bridesmaids	4 00@ 6.00
" Meteors	5 00@ 8.00
" Perles	4.00
Carnations	1 50@ 2 00
" fancy	3 00
Violets	.75@ 1 00
Lily of the valley	4.00
Smilax	12.50
Adiantum	1.00
Common Ferns	.15
Romans	2.00@ 3.00
Narcissi	3 00
Harrisii	12.50

ST. LOUIS, Jan. 26

Roses, Beauties	4 00@50.00
" Brides, Bridesmaids, Meteors	2.00@10.00
" Perles	2.00@ 6.00
Carnations	1 50@ 4.00
Smilax	12.50
Adiantum	1.00
Asparagus	40.00@50.00
Violets, California	.50
" single	.25
" double	.75
Roman hyacinths	3.00
Narcissi, Paper White	4.00
Callas	12 50
Harrisii	15 00
Valley	4.00

MILWAUKEE, Jan. 26

Roses, Beauties, long.... per doz.	5.00@ 6 00
" " medium " "	2 00@ 3.00
" " short " "	1.00@ 1 50
" Brides, Bridesmaids	6 00@ 8.00
" Perles	4 00@ 6.00
" Meteors	6.00@ 8.00
" Kaiserins	6 00@ 8.00
Carnations, fancy	3 00@ 5.00
" good stock	1 00@ 2 00
Lily of the Valley	4.00
Smilax	15 00
Adiantum	1 50
Asparagus	75.00
Violets	.50@ 1.00
Callas	15.00@20 00
Harrisii	15 00@20.00
Romans, Paper Whites	3.00
Freesias	3.00

PITTSBURG, Jan. 26.

Roses, Beauties	12.00@50 00
" Brides, Bridesmaids	5.00@12.00
" Meteors	6.00@15.00
" Kaiserins	6 00@15.00
" Niphetos, Perles	3.00@ 5.00
Carnations, short stems	.75@ 1 00
" long "	1 50@ 2.00
Violets	.75@ 1 50
Lily of the valley	4 00
Smilax	10 00@15 00
Adiantum	1.00
Asparagus	50.00
Hyacinths, Paper Whites	2.00@ 4.00
Harrisii per dozen	1.50@2.00

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FANCY DAGGER

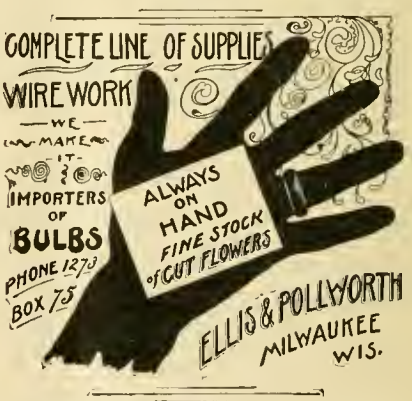
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1000...$1.25 M. | 5000...$1.20 M.
10,000...$1.10 M.

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24-in. stem..... "	3.50	
20 " "	2.50	
15 " "	2.00	
12 " "	1.25	
8 " "	1.00	
METEOR..... per 100,	7.00 to	9.00
BRIDESMAID..... "	7.00 to	9.00
BRIDE..... "	7.00 to	9.00
PERLE..... "	5.00 to	6.00
CARNATIONS..... "	2.00	
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ROMANS..... "	2.00 to	3.00
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Wholesale Flower Markets

CHICAGO, Jan. 27.

Roses, Beauties, extra long, per doz	5 00
" " 24 inch " "	3 50
" " 20 " " "	2.50
" " 15 " " "	2 00
" " 12 " " "	1 25
" " 8 " " "	1.00
" Brides	6 00@ 8.00
" Bridesmaids	6 00@ 8.00
" Perles	5.00@ 6.00
" Meteors	6.00@ 8 00
Carnations	1.50@ 2 00
" fancy	3.00
Lily of the valley	4.00@ 5.00
Adiantum	.75@ 1.00
Common ferns	.20
Smilax	12.00
Asparagus	50.00@100.00
Violets	.75@ 1.00
Romans	2.00@ 4 00
Paper Whites	3.00@ 4 00
Callas	15.00@20.00
Harrisii	15.00@20 00
Bouvardias	1.00@ 2 00
Mignonette	3.00

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PHILADELPHIA, Jan. 25.

Roses, Teas	8.00@10.00
" " extra	12 00
" Beauties, extra per doz.	7.50@9.00
" " firsts "	4 00@6 00
" " seconds "	1.50@3.00
Carnations	1.50@ 3 00
Lily of the valley	3 00@ 5 00
Asparagus plumosus	50 00
" Sprengerii sprays	2 00@ 5 00
Smilax	15.00@20.00
Violets, double	25@ 1 00
Narcissi, Roman Hyacinths	3 00@ 4 00
Adiantum	1.00
Mignonette	2.00@ 6.00

BOSTON, Jan. 25.

Roses, Beauties, best	35.00@60 00
" " medium	15 00@25 00
" " culls	5 00@10 00
" Meteors	6.00@12 00
" Brides, Bridesmaids	6 00@16.00
Carnations, ordinary	1.00@ 2 50
" fancy	3 00@ 5 00
Lily of the valley, Mignonette	2.00@ 4.00
Violets	35@ .75
Callas, Harrisii	10 00@12 00
Cattleyas	40 00@50 00
Tulips	1.00@ 3 00
Roman Hyacinths, Narcissus P. White	1 50@ 2 00
Daffodils	4 00
Freesias	1 00@ 2.00
Smilax	8.00@12.00
Asparagus	50.00
Adiantum	1.00

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BRIDES,
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Choice Carnations Choice Roses

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Telephone 1054-38.

Wholesale Flower Markets

NEW YORK, Jan. 25.

Roses, Beauties select	30.00@75.00
" " medium	15.00@25.00
" " culls	2.00@ 5.00
" Bridesmaids, Brides	4.00@12.00
" Meteors	6.00@12.00
" Morgans, Perles	4.00@ 6.00
Carnations	1.00@ 2.00
" fancy	2.00@ 5.00
Violets	50@ .75
Lily of the valley	2.00@ 3.00
Roman Hyacinths, Narcissus P. White	1.00@ 1.50
Harrisii	10.00@12.00
Mignonette	2.00@ 6.00
Cattleyas	35.00@40.00
Cypripediums	6.00@10.00
Tulips	1.00@ 3.00
Smilax	10.00@15.00
Asparagus	40.00@50.00
Adiantum	1.00

BUFFALO, Jan. 26.

Roses, Beauties	5.00@60.00
" Brides, Bridesmaids, Meteors	4.00@10.00
" Perles, Niphetos	2.00@ 6.00
" Kaiserins	5.00@10.00
Carnations, ordinary	1.00@ 2.00
" fancies	3.00@ 4.00
Lily of the valley	4.00@ 5.00
Smilax	15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
Hardy Ferns	.20
Violets	.50@ 1.50
Romans, Paper Whites	1.00@ 4.00
Harrisii	20.00@25.00
Tulips	4.00@ 5.00

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Write for Price List. 34 W. 29th St., NEW YORK.

ALSO
VIOLETS
VALLEY
ROMANS
NARCISSUS
POINSETTIA

Please mention American Florist when writing.

CARNATIONS.

FLORA HILL MORE PROLIFIC.

In our notes last week on the establishment of the Chicago Carnation Co., page 728, through a clerical error it was stated that 1575 plants of Flora Hill gave 1300 flowers between October 1 and December 25 when the yield of blooms was 13,000 (thirteen thousand).

CARNATION MELBA.

In the front rank of novelties seeking favor this season stands Melba, one of the productions of John N. May, Summit, N. J. Melba possesses many excellent qualities, among which are a free flowering habit, the bloomscoming early and without cessation throughout the season; a flower large and perfect in form, with good calyx and very fragrant; and a long, boldly erect stem. It is said to have been very profitable in the eastern markets last winter, and was awarded many certificates at recent exhibitions, also the silver medal of the Chicago Horticultural Society and the Craig cup.

AGAIN THE RUST.

ED. AM. FLORIST:—Enclosed please find sample of diseased carnation. You will oblige by giving name of trouble and remedy. SUBSCRIBER.

The sample is affected by rust and I am sorry to say that there is, to the best of my knowledge, no cure. However, carnation growers are beginning to appreciate that while the rust is not desirable, yet it is not really a serious fault, for, with good culture, just as fine flowers can be produced on a plant affected with the rust as on one not so affected, except in very bad cases. It also seems that some of our very best varieties are affected to a greater or less extent.

Some growers have firm belief in air slaked lime as a preventative and remedy for rust, others use the copper compound so often recommended and yet others use a solution known as Fowler's solution, using one ounce to eight gallons of water and spraying the plants with it after the flowers have been pulled. I have tried them all and have yet to find a remedy that really did any good. The only thing I can do is to grow the plants in as good health as possible and in this way I find that rust need not be feared. Another thing I have found is that a variety may be affected one season and be entirely free another and that in many instances rooted cuttings which I have received full of rust were entirely clean when we came to plant them into the houses in the fall. ALBERT M. HERR.

CULTURAL NOTES.

January 28.—That there are new methods of culture, keeping pace with the new and improved varieties, no one can doubt. The question with carnation growers, who keep a careful eye on both sides of their ledger, is whether or not these new methods of culture can be made to pay.

One of the most striking innovations of late years is the sub-watering system, the advantages of which were so ably demonstrated to us by Prof. Arthur at the meeting of the American Carnation Society in Chicago. How many growers are trying this method I do not know, but I presume from the expression of opinion at that meeting, fully two-thirds of those present are trying sub-watering on a more or less extensive scale. At the Cottage Gardens, I am told, there is a house fitted up according to Prof. Arthur's instructions, and the results are so gratifying that more are to be equipped in the same manner.

On account of the severe drought of the past summer my plants did not warrant me in going to the expense of fitting up a house as suggested by Prof. Arthur, but a tile man struck the place about planting in time with such a cheap method of sub-watering that I concluded to risk the small outlay and we fitted up one house, laying the tile on the subsoil of a solid bed and cementing the joints, but evidently the job was not done carefully enough for several leaks made the experiment worthless. The tile used was in lengths of about eighteen inches and made of a soft, porous clay through which the water was supposed to soak and keep the soil in proper shape.

I then coated an old bench sixteen feet long and three feet wide, with a thin layer of cement, running it up the side boards about three inches, and laid a set of these tiles in the cement, slipping the joints together but not cementing them or attempting to tighten them in any way. For the three-foot bed a double run of tile was put in; that is, about six inches from the side a run was made down to the end and with elbow connections it was returned along the other side of the bench, and an elbow put into the end of each run. One of these elbows is used to insert the hose and water is allowed to run until it shows in the other elbow. After the tiles were laid we put in the soil, planted the bench and are watering as above stated. By the time the water shows in the second elbow enough has soaked out the joints to saturate the soil in the bench and such a watering about every two weeks has kept the plants in excellent condition and the results will, I think, pay for the slight cost.

I shall the coming summer fit up one of my solid bed houses with this tile, putting a layer of cinders in the bottom, over this cement and on the cement the tiles arranged as described. I figure that I can do the job on a solid bed 100x8 feet for $50 and I fully believe that I can get $50 more out of a house so treated than from the same sized house watered on the surface. ALBERT M. HERR.



CARNATION MELBA.

To It.

Oh, Pink!
At you I gaze and think—
And likewise wink.
Your worth I do not know,
But you're a three-ring show—
A calyx-bursting glow.
If you cost thirty thou-
Sand dollars, as they vow,
I cannot tell you how
My heart to you goes out.
You are, surpassing fine—
A floral copper mine,
Of flaws you show no sign—
But still the awful doubt!
Didst cost what people say?
Did Lawson really pay
Three tens, and still look gay?
In Nature's crown you shine,
And, by your right divine,
Evade the rates per line.
But still I gaze and think,
Are you a hinky dink,
Oh, Pink?

—*Boston Journal.*



Greenhouses of the Chicago Carnation Company, Joliet, Ill.

...INTRODUCTION...

In presenting this list to the trade we beg to call attention to the fact that we have the model Carnation establishment of America and that we grow Carnations only. Not another plant of any description has ever been seen in our houses; consequently all our time and energy are devoted to the Divine Flower, which makes, as you know, a great difference in the quality of stock that can be produced, as compared with what can be turned out where a hundred and one things are grown. One thing well done is better than a dozen but half done.

We reproduce upon the following pages photographs of some of the varieties we grow, and ask you to note that we give our plants an abundance of room, in some cases over a foot to a plant. This is to give sunlight and air all through the plants and right into the softest parts, the axils of the leaves, where we expect our next growth to push up. All the photographs, except that of the house of Victor, were taken January 1, 1899, just after we had cut every flower that was fit for our New Year's orders. The pictures, therefore, do not do our plants full justice, but our readers, being practical growers, can tell at a glance what kind of stock we produce from such healthful growth.

We take as great pride in growing good rooted cuttings as we do in producing high-grade blooms. All our cuttings are thoroughly ripe, being taken from stems of developed flowers; they take longer to form roots, being so hard, but when once rooted they grow about twice as fast as the weak, soft cuttings taken at random with apparently little object other than to fill up the propagating bed with a lot of fungous, which, distributed all over the country at ridiculously low figures, are dear at any price.

A trial order will convince you of the superiority of our stock. We can supply any quantity.

Every order will receive our careful attention and will be shipped promptly as our facilities are of the best. Five railroads pass through Joliet—the Chicago & Alton, Chicago, Rock Island & Pacific, Atchison, Topeka & Santa Fe, Michigan Central and Elgin, Joliet & Eastern, with seventy-four passenger trains in and out each day. We can make shipments at any hour by one of the following express companies: United States, American, Wells Fargo and Pacific.

CHICAGO CARNATION COMPANY,

Greenhouses and Address, JOLIET, ILL.



HOUSE OF CARNATION MRS. GEO. M. BRADT.

Delivered to us from sand May 1, field grown and benched Sept. 10, photographed Jan. 1, 1899.

MRS. GEO. M. BRADT.

VARIEGATED. Introduced 1897.

This is pre-eminently the most satisfactory carnation to date. It produces the largest flowers and, with us, stiffer stems than any variety in commerce. The cut shows that the flowering stems have no support whatever. Mrs. Bradt commands the highest price of all the varieties we grow and gives as many flowers per square foot of bench room as many sorts which bring but half the price; plant close. The flowers have retailed at from $2.00 to $3.00 per dozen. We have an abundance of stock of this scarce variety.

Rooted Cuttings, $5 per 100; $40 per 1000; 250 at 1000 rate.

CHICAGO CARNATION COMPANY,
JOLIET, ILL.



HOUSE OF CARNATION GOLD NUGGET.

Delivered to us from sand May 1, benched Sept. 15, photographed Jan. 1, 1899.

Gold Nugget.

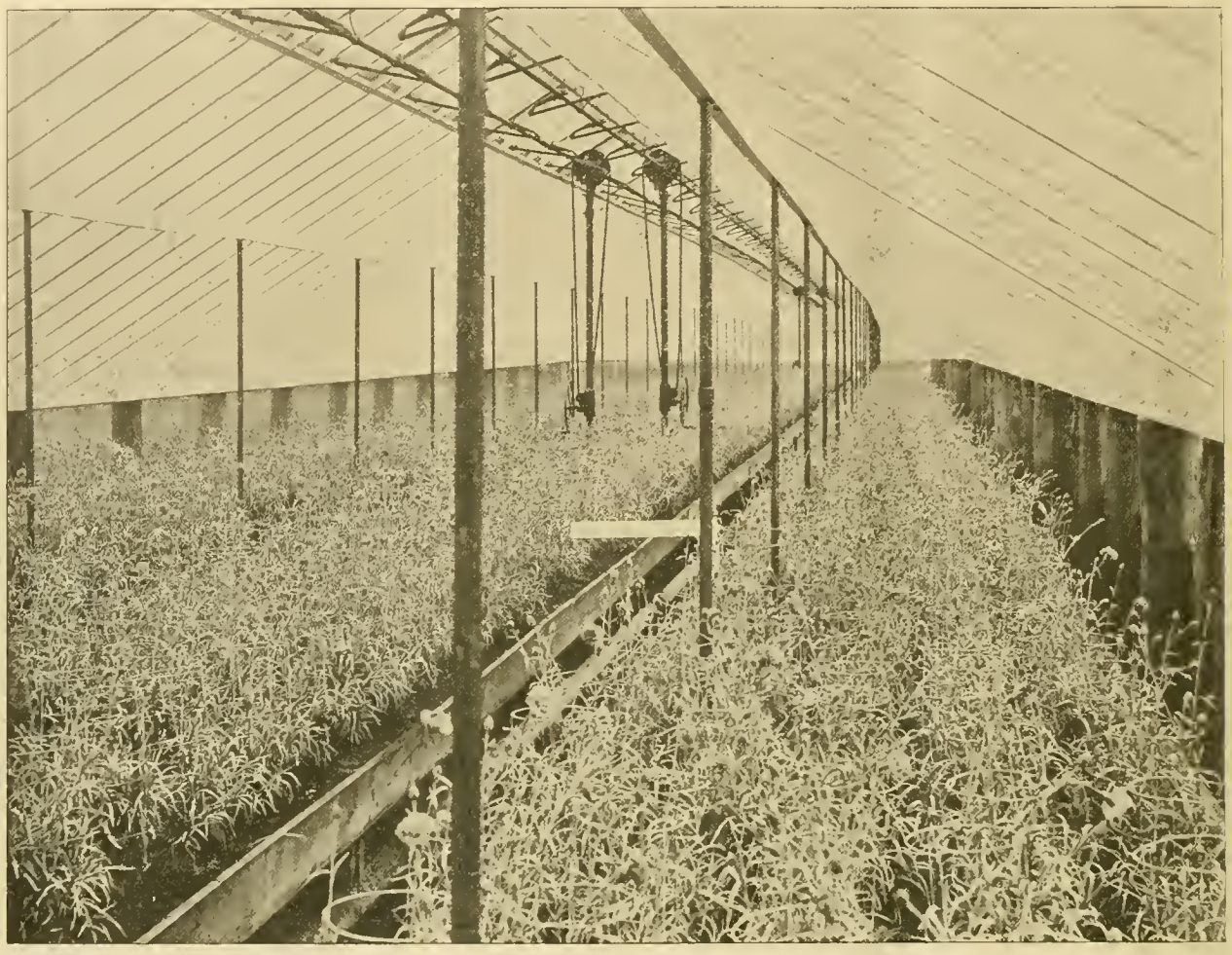
YELLOW. Introduced 1898.

It goes without saying that Gold Nugget stands at the head of the list of yellow carnations. As a strong grower and prolific bloomer it will be hard to displace.

Rooted Cuttings, $5.00 per 100; $40.00 per 1000; 250 at 1000 rate.

Allow us to figure on your wants. We know we can please you both as to quality and price, particularly on large orders.

CHICAGO CARNATION COMPANY,
JOLIET, ILL.



HOUSE OF CARNATION VICTOR.

Delivered to us in last week of April, benched Sept. 14, photographed Dec. 8.

VICTOR.

SALMON PINK.

This variety stands well to the front among the pinks and has a host of friends. It certainly deserves all that has been said in its favor; flowers large, long stiff stems, grand color and a very profitable variety to grow.

Rooted Cuttings, $3.00 per 100; $20.00 per 1000; 250 at 1000 rate.

Bear in mind that on large orders we can figure to the lowest price at which good stock can be rooted.

CHICAGO CARNATION COMPANY,
JOLIET, ILL.



HOUSE OF CARNATION EVELINA.

Delivered to us in May, benched Sept. 18, 1898, photographed Jan. 1, 1899.

EVELINA.

WHITE. Introduced 1898.

This has been termed the "cut and come again" carnation. The profusion of bloom invariably attracts the attention of the visitor the moment he enters the Evelina house, for the benches are very like a snow drift. It is a beautiful flower when well done, and at Cincinnati in 1897 took first prize for white over Flora Hill.

Rooted Cuttings, $4.00 per 100; $30.00 per 1000; 250 at 1000 rate.

ARMAZINDY.

VARIEGATED. Introduced 1896.

A bench of this most useful variety is shown to the right in the house of Evelina. It has a fine flower on extremely long, stiff stems, is very prolific and a quick seller.

Rooted Cuttings, $2.00 per 100; $15.00 per 1000; 500 at 1000 rate.

CHICAGO CARNATION COMPANY,
JOLIET, ILL.



HOUSE OF CARNATION JUBILEE.
Photographed Jan. 1, 1899.

JUBILEE.

GRAND SCARLET. Introduced 1896.

This variety is still at the head of all the scarlet sorts in commerce. When grown indoors during summer it is a phenomenal money maker. Its long, stiff stems and large, bright flowers make it irresistible to the buyers of choice stock.

Rooted Cuttings, $2 per 100; $15 per 1000.

☞ Let us give an estimate on whatever varieties you need. We can figure very close on large quantities.

CHICAGO CARNATION COMPANY,
JOLIET, ILL.

Other New and Excellent Varieties.

MRS. JAS. DEAN.

LIGHT SILVERY PINK. Introduced 1898.

This is the greatest surprise of all the 1898 novelties and is causing a furore among Chicago's leading retail florists. Society ladies delight in its exquisite color and fineness of petal. It is the most beautiful shade of all the light pinks, and produces the largest flowers, averaging three inches in diameter, on stiff stems from 20 to 30 inches long. It sells at sight at from 5 to 6 cents while its competitors go begging at from 2 to 4 cents. It is a very free and healthy variety, and the strongest grower we have. The flowers should not be picked until the color reaches its most charming shade. It is a splendid keeper.

Rooted Cuttings, $5 per 100; $40 per 1000.

250 at 1000 rate.

G. H. CRANE.

SCARLET. Introduced 1899.

Dorner's long stemmed, bright scarlet, free, profuse and constant bloomer. It comes into bloom early and yields both quality and quantity. Stem long and stiff from beginning to end of season. Tested three years and proved all right as a commercial variety.

Rooted Cuttings, $10 per 100; $75 per 1000.

NEW YORK.

CERISE PINK. Introduced 1898.

This is a splendid sort, a very free bloomer said to produce seven flowers to a plant more than does Scott. We know it brings us just about three times the price that Scott sells for.

Rooted Cuttings, $5 per 100; $40 per 1000.

FLORA HILL.

LARGE WHITE. Introduced 1897.

When well grown this sort is very hard to beat and it is too well known to require description here.

Rooted Cuttings, $2 per 100; $10 per 500; $15 per 1000.

EMPRESS.

CRIMSON. Introduced 1898.

This sort is well named for it is certainly a queen as we have seen it. Late bloomer.

Rooted Cuttings, $4 per 100; $30 per 1000.

MRS. FRANCES JOOST.

PINK. Introduced 1898.

Its better color, longer and stiffer stems, more prolific blooming and superior habit of growth will cause this variety to displace that grand old stand-by, Wm. Scott. Returns are more than twice as much as from Scott; you can afford to plant this in very large quantities.

Rooted Cuttings, $5 per 100; $35 per 1000.

500 at 1000 rate.

ARGYLE.

BRIGHT CARMINE PINK. Introduced 1898.

This is a grand, free and continuous bloomer, producing very large flowers on long, strong stems. The plants are extremely healthy and on account of its bright color the cut blooms are among the very best sellers in the market.

Rooted Cuttings, $5 per 100; $40 per 1000.

250 at 1000 rate.

MELBA.

PINK. Introduced 1899.

May and Craig's grand combination of good qualities, free bloomer, early and continuous. In point of color the finest pink carnation yet introduced; large and perfect in form, very fragrant and with a long stiff stem.

Rooted Cuttings, $10 per 100; $75 per 1000.

BON TON.

FIREY SCARLET. Introduced 1898.

Produces a large, beautifully fringed flower, supported upon a very stiff stem; grows bushy and needs no support. Said to average eighteen flowers to a plant.

Rooted Cuttings, $4 per 100; $30 per 1000.

DAYBREAK.

LIGHT PINK. Introduced 1891.

Our stock of this universal favorite has been grown cool with the view of getting prime cuttings and we have them.

Rooted Cuttings, $2 per 100; $15 per 1000.

JOHN YOUNG.

WHITE. Introduced 1898.

This is the most satisfactory white we grow.

Rooted Cuttings, $5 per 100; $40 per 1000.

CHICAGO CARNATION COMPANY,

JOLIET, ILLINOIS.

J. D. THOMPSON,
Superintendent.

JAS. HARTSHORNE,
Manager.

Chicago Carnation Co.

JOLIET, ILL.

EXCLUSIVE CARNATION GROWERS.

Producers of the finest grade of cut blooms and the strongest, well-rooted cuttings of the following leading sorts:

ROOTED CUTTINGS, Spring 1899.

	Per 100	Per 1000
G. H. CRANE	$10.00	$75.00
MELBA	10.00	75.00
MRS. GEO. M. BRADT	5.00	40.00
GOLD NUGGET	5.00	40.00
MRS. JAS. DEAN	5.00	40.00
ARGYLE	5.00	40.00
NEW YORK	5.00	40.00
JOHN YOUNG	5.00	40.00
MRS. FRANCES JOOST	5.00	35.00
EVELINA	4.00	30.00
BON TON	4.00	30.00
EMPRESS	4.00	30.00
VICTOR	3.00	20.00
JUBILEE	2.00	15.00
ARMAZINDY	2.00	15.00
FLORA HILL	2.00	15.00
DAYBREAK	2.00	15.00

Get our estimate upon your wants; we can supply any number of cuttings and will make close prices on large quantities. Stock and service guaranteed. Prompt shipment, seventy-four express trains out of Joliet every day.

CHICAGO CARNATION COMPANY,

JOLIET, ILLINOIS.

S. B. WINTER,

Commission Handler of

High Grade Cut Flowers!

21 Randolph St., CHICAGO.

L. P. KELLY, Manager.

TO GROWERS:

I find a ready sale for ROSES, CARNATIONS, VIOLETS and BULB STOCK.

PRICE LIST.

ROSES.	Per Doz.
Beauties, extra long	$5.00
" 24-inch	3.50
" 20 "	2.50
" 15 "	2.00
" 12 "	1.25
" 8 "	1.00

	Per 100
Brides	$6.00@ $8.00
Bridesmaids	6.00@ 8.00
Meteors	6.00@ 8.00
Perles	5.00@ 6.00
Carnations	1.50@ 2.00
" fancy	3.00
Lily of the Valley	4.00@ 5.00
Adiantum	.75@ 1.00
Common Ferns	.20
Smilax	12.00
Asparagus	60.00@100.00
Violets	.75@ 1.00
Romans	2.00@ 4.00
Paper White	3.00@ 4.00
Callas	15.00@ 20.00
Harrisii	15.00@ 20.00
Mignonette	3.00

The TRUE "EXCELSIOR PEARL" Strain of TUBEROSE is quite scarce this year. It will not pay you to grow the "common" kind.



TRUE EXCELSIOR PEARL, dwarf, first-class, strong bulbs, Telegraphic word "Modern", per 100, $1.00; per 1000, $7.50; 2000 for $14.50.

TRUE EXCELSIOR PEARL, dwarf, medium, excellent mailing size, Telegraphic word "Militia", per 100, 75c.; per 1000, $5.00; 2000 $9.00.

TALL DOUBLE, first-class, strong, Telegraphic word "Malvern", per 100, $1.10; per 1000, $8.00.

Prices quoted are for immediate order. We will book you now and make delivery up to February 15th.

	Per 100
LILIUM Auratum 7- 9-in.,	$4.00
" " 9-11-in.,	6.50
" " 11-13-in.,	10.00
" *Speciosum Album* 7- 9 in.,	5.00
" " " 9-11 in.,	6.25
" " *Rubrum* 7- 9 in.,	3.75
" " " 9-11 in.,	5.50
SPIRAEA Japonica	4.00
DIELYTRA SPECTABILIS	9.00
LILY OF THE VALLEY, "Premium" Brand	$12.00 per 1000

Write for Prices on Quantities of above.

CHICAGO. **Vaughan's Seed Store,** NEW YORK.

Orchids!

Orders booked now for imported CATTLEYA LABIATA, C. MOSSIE and C. SPECIOSISSIMA, for spring delivery. Choice ORCHID FLOWERS always on hand.

LAGER & HURRELL, SUMMIT, N. J.
Orchid Growers and Importers.

BEGONIAS AND GLOXINIAS

In any quantity.

SANDER, Bruges, Belgium.
AGENT: A. DIMMOCK,
60 Vesey Street, - - - NEW YORK.

GERANIUMS.

Fine rooted cuttings, mixed, from soil	$12 per 1000
2½-inch, mixed	25 per 1000
" " S. A. Nutt, La Favorite, etc.	25 per 1000
Mme. Salleroi, 2¼-inch	20 per 1000
COLEUS, fine, from soil	1 per 100

Cash please. CARL HAGENBURGER, W. Mentor, O.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

ON account of the scarcity of Harrisii bulbs an activity in the European demand for Japanese longiflorums is already noted, much earlier than usual.

BAY CITY, MICH.—Harry N. Hammond, the Decatur seedsman, will grow vegetable and flower seeds upon the Mundy & Fifield farm south of this city.

THE contract prices asked for peas and beans of crop of 1899 are somewhat higher than last season and yet no more so than can reasonably be expected in view of the scarcity of seed stocks and the inclination of farmers to try other crops promising a better profit.

VAN ZANTEN BROTHERS, Hillegom, Holland, have purchased the export bulb business of Van Der Horst & Dames, Lisse, who on January 1 dissolved partnership, each gentleman continuing upon his own account in the bulb growing branch of their industry. Van Zanten Brothers are well known to the American trade as very large producers of first-class Holland bulbs.

Rocky Ford Musk Melon.

I have always claimed that a good musk melon is nothing but condensed sunshine combined with proper soil and climatic influence. Too much moisture will spoil the quality of melons, while the lack of sufficient moisture is equally as damaging.

Colorado has no lack of sunshine and, as I understand the moisture at Rocky Ford can be regulated by irrigation, the very acme of climatic influences are therefore brought to bear towards reaching the perfection that has brought the Colorado melons into prominence. This, with a system of selection and inspection that probably surpasses anything that has ever been attempted before in its far reaching exactness, gives the public only the cream of the crops and makes this melon superior to the usual product of even expert growers who cannot so nearly control the conditions surrounding their output.

There is no question of doubt in my own mind that nearly all good melon districts will produce just as good quality when conditions are favorable as it is possible to produce at Rocky Ford, seed, selection and inspection being equal. This I have proven to my own satisfaction here at home, and it is also proven by the variation in quality certain seasons in the Rocky Ford output.

About six years ago I received a sample of seed of the so-called Rocky Ford melon. This was carefully planted in complete isolation and proved to be a fair strain of Burpee's Netted Gem, in no way superior to many acres I was growing for seed purposes; it was therefore dropped as being a distinct variety. Since then the melon has apparently been selected for the oval type, although the manager of the Rocky Ford Association tells me there is no objection to the more nearly round type.

That the selection of seed for quality, texture and thickness of flesh, has contributed largely to the success of the Rocky Ford growers is without question. This has been discussed by your different correspondents in a much more effective manner than I can present it.

January 19, 1899. J. C. ROBINSON.

Cleveland.

SALES FAIR AND STOCK BECOMING MORE PLENTIFUL. — ROSES IN CROP AGAIN. — VIOLETS LITTLE GROWN.—SMALL PARTY FOR CARNATION MEETING.

Business during the past two weeks has not been noteworthy. There has been a fairly steady demand for good stock, and sales have been up to the average, or a little better, for this season of the year. But the scarcity that had so long been apparent has entirely disappeared, owing partly to increased supply and partly to decrease in the volume of business. Roses, that with many growers went off crop just at the close of the holidays, are beginning to come in again in sufficient supply to rather weaken the rates.

Carnations are more plentiful and somewhat improved in quality. Tulips are coming in with fair stems, although they are not by any means first class in that respect. Proserpine usually shows up the best of the lot.

Violets are little grown about Cleveland, they never seeming to have done well for any length of time with any grower. A few very good ones are now coming from Bedford, quite up to the grades shipped in. A few very early double and single Von Sion narcissi have appeared and sell well.

We have had quite a lengthy season of warm and generally sunshiny weather, so that it has been possible to air the houses quite freely, much to the benefit of stock.

There was some discussion at the last club meeting as to attending the meeting of the American Carnation Society. Several members spoke of going, but nothing definite was decided upon at the time, so that those intending to go will be obliged to make arrangements individually. A.

Nashville, Tenn.

Trade has been quite good for the past week and flowers have been none too plentiful. The rose stock is sold out daily. Particularly are the white roses scarce, but there seems to be a sufficiency of Beauty. Carnations, hyacinths and narcissi are coming in well, and violets are more plentiful.

One of the most important changes of the week was the dissolution of the partnership heretofore exisiting between R. B. Curry and Mrs. M. C. Dorris under the firm name of Curry & Co., Mrs. Dorris retiring. Mr. Curry will continue at the old stand where for twenty-five years, first by the elder Currys and since by the younger members of the family, a fine business has been conducted. M. C. D.

Providence, R. I.

There has recently been an immense amount of funeral work and the supply of white flowers has not been equal to the demand. Weddings, too, and other social events have kept pace with the solemn affairs of life and have absorbed large quantities of colored stock and made trade good for every one. Roses and carnations are, however, equal to the call and are of good quality. Violets are very plentiful. Tulips and other bulbous stock is coming in more freely.

There is a very great call for flowering plants with no extra supply to meet the increased demand.

At the last meeting of the Gardeners Club F. Macrae and W. B. King exhibited some very fine seedling carnations.

Wm. Appleton, Jr., has recovered from an illness. LITTLE RHODY.

Belmont, Cal.

The McLellan Company reports trade as very satisfactory. Last season they put in a new hot water boiler and at present contemplate new additions for the coming summer. Meteor, Bride and Bridesmaid are grown. Mrs. Robert Garrett is being tried but thus far has been found wanting. Of the two certainly Testout is the better. They have something, however, which is destined to cut a wide swath in the field where Bridesmaid now reigns supreme. It is a sport from that variety, of a beautiful deep, glowing pink, almost scarlet. The plant sported two years ago and produced red flowers only from half a bush. VIVIDIS.

Kingston, Pa.

The genial G. W. Carr reports the best trade he has had in years. The holiday trade surpassed his most sanguine expectations, while funeral and decorative work of one sort or another has kept him busy all along. A sport of Victor, a beautiful pink penciled specimen, borne on a long, stiff stem, fragrant and otherwise meritorious, is being watched with much interest by Mr. Carr. He has but a few plants, but a year hence, it may make its debut. HOMO.

MARSHALL, Mo.—The Marshall Floral Company has been incorporated by T. H. Harvey, R. E. Holloway and Carl Stamm with a capital of $3,000.

FIRST QUALITY. LOW PRICES.

Tuberous Begonia Bulbs

Single Red, White, Rose, and Yellow,

Per doz. 40 cts., hundred $2.50, thousand $23.

Double Red, White, Rose, and Yellow,

Per dozen $1.00, hundred $5.00.

Gloxinia Bulbs, mixed colors

Per dozen 65 cts., hundred $4.00.

Buy from the introducers, the Improved Strain of

Vick's Branching Aster, white

The best late variety. Per ounce $1.00.

Queen of the Earlies or Early Market, the earliest of all asters. White or mixed colors 75c. per oz.



JAMES VICKS SONS,

ROCHESTER, N. Y.

Please Mention American Florist.

ESTABLISHED 1802

THORBURN'S SEEDS

NOW READY:

SPECIAL PRICE LIST OF
CHOICE FLOWER SEEDS
FOR FLORISTS
FREE ON APPLICATION.

J. M. THORBURN & CO.
(Late of 15 John Street)
36 CORTLANDT STREET, NEW YORK

Fresh Araucaria Excelsa Seed

	100	1000
Full of germ and meat	$1.00	$5.00

(Directions given, if desired, to grow successfully.)

Kentia Belmoreana and Forsteriana	.65	7.50
Latania Borbonica	.40	2.50
Pandanus utilis	1.25	10.00
Asparagus Plumosus Nanus	1.25	10.00
Asparagus Sprengerii	1.00	9.00
	oz.	lb.
Freesia refracta alba seed	$.25	$1.50
Grevillea Robusta	.40	3.00
Smilax seed	.40	3.00
California grown Sweet Pea Seed (Send for list), any sort	.10	.60
Japan Morning Glory, choicest single	.25	1.00
Japan Morning Glory, choicest single and double mixed	.40	2.00
Semi-double and double	pkt. 25c,	2.00

Send for our **NEW LIST** for Spring and Summer Bulbs, Seeds, **Cycas Revoluta Stems,** Clematis, Roses, Azaleas, Rhododendrons, etc.
We can offer you **Good Stock** at living rates.

ADDRESS
H. H. BERGER & CO. 47 Barclay St., NEW YORK.
(ESTABLISHED 1878.)

FRANCIS BRILL

Hempstead, Long Island, N. Y.

GROWER AND DEALER

Choice Long Island Cabbage Seed

Of all leading Varieties and Finest Strains.

Finest *American Grown Cauliflower Seed*

and MARKET GARDENERS' SUPPLIES.

CHOICE SEEDS!

VERBENA GRANDIFLORA.
The finest strain of Giant Verbenas yet produced, largest flowers and best colors. Be sure to sow. Per pkt 5'0 seeds, mixed colors, 50 cts.

CYCLAMEN GIGANTEUM.
The choicest giant flowering varieties in best mixture, Pkt., 200 seeds. $1.00; half pkt., 50 cts.

PETUNIA DOUBLE FRINGED.
The largest and finest to be had. Trade pkt., 50 cts.

CHINESE PRIMROSE.
Best single and double. 400 seeds. $1.00.
Seeds of Choice Novelties added to every order.
JOHN F. RUPP, Shiremanstown, Pa.

EXTRA CHOICE FLOWER SEEDS.
List free on application.
FRED. ROEMER, Seed Grower,
Quedlinburg, Germany.

Michell's "Fresh Tested" Seeds Phila.

NOW IS THE TIME TO SOW

SEEDS

New Crops now ready. Quality the very best.

	Trd Pkt.	Oz.
Asparagus Plumosus Nanus, new crop just received, home grown (more reliable than imported seed), $1.25 per 100 seed, $11.00 per 1000 seeds.	$0 25	
Begonia Vernon, pink	.20	$0.50
" **Candidissima**, 1000 seeds	.30	1 25
Cobæa Scandens	.15	.40
Dracæna Indivisa (new crop)	.15	.40
Golden Feather (Pyrethrum Aureum)	.15	.50
Grevillea Robusta	.15	.40
Impatiens Sultani	.25	
Kenilworth Ivy (Linaria Cymbalaria)	.15	
Lobelia, Crystal Palace Compacta, true variety for pots (⅓ trade pkt 20c)	.30	2.50
" Crystal Palace Speciosa, trailing, for baskets and vases	.20	.75
Petunia Grandiflora, choicest mottled and striped (per ⅓ trade pkt .30c)	.50	6.00
" California Giant, extra large flowers of the brightest and salable colors (per ⅓ trade pkt .30c)	.50	24 00
" Dwarf Compacta, inimitable, (⅓ trade pkt., 30c)	50	4.00
" Double (hybridized and fringed), 500 seeds 60c; 1000 seeds, $1.00.		
Phlox Drummondi, Nana Compacta, selected with utmost care from bushy plants, CHOICEST MIXED. The mixture is made by ourselves, the brightest colors only (per ⅓ trade pkt., 30c)	.50	2 00
Salvia Splendens (Scarlet Sage)	.25	1.25
" Clara Bedman (New Dwarf)	40	3.50
" "Bonfire," Scarlet Dwarf	.40	3 50
Stocks, Snowflake, pure white (⅓ trade pkt., 30c)	.50	8 00
" Princess Alice, cut and come-again (⅓ trade pkt., 30c)	.50	3 00
" blood red (⅓ trade pkt., 30c)	.50	2 50
" Purple-violet (⅓ trade pkt, 30c)	.50	2 50
" white (⅓ trade pkt., 30c)	.50	2.50
" mixed (⅓ trade pkt., 30c)	.50	2 00
Smilax, just received (per lb., $4 00)	.15	.40
Torenia Fournieri Grandiflora, blue	30	
Vinca, pure white	.20	.75
" rose or red	.20	.75
" white eye	.20	.75
" mixed	.20	.75
Verbena, Choicest Mammoth Scarlet	.30	1 50
" " " White	.30	1 50
" " " "	.30	1 50
" " " Pink	.30	1.50
" " " Mixed	.30	1.50
" very fine mixed	.25	1.00

Complete Wholesale Price List of Flower Seeds for present sowing now ready. Mailed on application.

NOW IS THE TIME TO PLANT BULBS OF

TUBEROUS ...ROOTED BEGONIAS.

The very choicest quality, all large Bulbs, largest flowering.

SINGLE, in separate colors, white, pink, scarlet, crimson, yellow—$3.00 per 100, $25.00 per 1000.

SINGLE, Choicest Mixture—
$2.50 per 100, $20.00 per 1000.

DWARF FRENCH CANNAS.

Strong Dormant Roots.

Grown for us by a Specialist in very large quantities, enabling us to make **Special Low Prices** for immediate planting. The roots are strong, true to name and have not less than two eyes to each root. **We advise planting at once to secure a good stock for spring trade.**

	per doz	per 100	per 1000
Alphonse Bouvier, crimson	$0.50	$3.00	$22.50
Alsace, creamy white	.50	3.50	30.00
Austria, yellow	.50	3.00	22.50
Burbank yellow	.50	3.50	30 00
Chas. Henderson, crimson	.40	2.00	17.50
Chicago, brilliant scarlet	.75	4.00	35.00
Columbia cardinal red	.75	4.00	35.00
Egandale, cherry red	.50	3 00	22.50
Eldorado, yellow	.60	3.50	30 00
Flamingo, crimson scarlet	.85	6.00	50 00
Florence Vaughan, yellow	.50	3.00	25.00
Italia, yellow and scarlet edge	.50	3.00	22.50
Mme. Crozy, scarlet, bordered yellow	.40	2.00	17 50
President Carnot, orange-scarlet	.50	3.00	75 00
President McKinley, crimson	3.50	25.00	200.00
Philadelphia, crimson	1.50	10.00	75.00
Queen Charlotte, scarlet, golden border	.40	2 50	22 50
Mixed, All French varieties	.30	2.00	17.50
Robusta Perfecta, tall growing	.35	2.50	22 50

Gloxinia Bulbs.

Finest mixed, erect flowering,
$4.00 per 100, $30 00 per 1000

Also all other Bulbs. Send for our complete 1899 Catalogues.

HENRY F. MICHELL,

SEEDSMAN

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1018 Market Street, PHILADELPHIA.

RÖLKER'S FLOWER SEEDS!

SPRING BULBS.

Write for 1899 Catalogue to.....

August Rölker & Sons, 52 Dey Street, New York.

Rose Hill Nurseries

PALM FARM OF AMERICA
The largest and finest stock of Palms in America...
SIEBRECHT & SON, New Rochelle, N. Y.



FLOWER SEEDS
THAT GROW.
Send for Free copy of the most unique book published devoted exclusively to Flower Seeds.
S. Y. HAINES & CO.,
105 Boston Block, MINNEAPOLIS, MINN.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

TEXAS nurserymen report a large demand for apple trees.

PATTERSON'S NURSERIES, Stewartstown, Pa., are in search of Kieffer pear trees.

A BILL pending before the Illinois legislature places $5,000 in the hands of the state entomologist for the work of combating San Jose scale.

THE pecan is indigenous to the soil of Texas, Louisiana and other southern states. It bears the richest and most delicate of nuts and is being extensively planted for commercial purposes.

ARCHIE AUGUSTINE, of Augustine & Co., Normal, Ill., reports a decided advance in all lines of nursery stock, particularly apple, cherry and small fruits, due to short supply and increased demand.

Non-Berried Holly.

ED. AM. FLORIST:—Would some competent person kindly throw light on the following question, to-wit: What are the various causes of holly not bearing fruit, and how must it be propagated (if one cause lies back so far as that) to insure good berry-bearing trees? Gray's "Botany" gives me a suspicion in the statement: "Flowers more or less dioeciously polygamous"; but I have no work giving instructions as to selection and treatment in propagation and culture. I have been repeatedly asked to diagnose and make fruitful trees some of which were said to bear about once in four years, others never. A full treatment of this subject, I feel assured, will be highly appreciated by many other florists of the west, who also lack the advantage of professional books in public libraries. I. S.

Portland, Ore.

I have never closely examined the flowers of many holly trees, but some of those that I have proved to possess entirely male flowers. Botanists are well agreed that there are male and female trees There are so many instances of isolated trees bearing berries that there seems no room to doubt the existence also of trees with perfect flowers. As there is no way to determine in advance to which of the three a certain tree belongs one must either get a seedling which has already borne or one raised in some other way from a seed-bearing sort.

Propagation is effected by cuttings, grafting or budding. The variegated and golden-leaved ones common in Europe are mostly grafted, the work being done in early spring. Nicholson says budding with a pushing bud in spring or a dormant one in the fall may be done with success. I have not tried cuttings of our native sorts, but have assisted in the propagation of the English in that way, and with good results. Cuttings are best put in in early winter in slight bottom heat. There will be a few roots by spring, but it may be just as well not to disturb them for a year. The growth is slow for a year or two, but when fairly started this holly grows faster than our native one.

There would seem to be a good field for some one to get up a stock of berry-bearing hollies in pots. Would there not be a great sale for them about Christmas time? They would be beautiful ornaments in small pots, and even large plants would be perhaps as much in demand as are Portugal laurels and similar broad-leaved evergreens.

The English holly and varieties are hardy in this part of Pennsylvania. The foliage being prettier than the native it is the preferred kind where its merits in the way of hardiness are known.

Philadelphia. JOSEPH MEEHAN.

West Michigan Nurseries.

The stockholders of the West Michigan Nurseries, having 913 acres at Benton Harbor, have elected the following directors:

John W. Bedford, Cushing; Arthur J. Dean, Eau Claire; H. A. Rackliffe, Benton Harbor; O. E. Fifield, Benton Harbor; C. W. Schriver, Benton Harbor; Frank M. Kelley, Benton Harbor; Milton Preston, Eau Claire; W. B. Moshier, Eau Claire; H. L. Bird, Benton Harbor.

The directors have, in turn, chosen these officers to administer the affairs of this successful concern:

President, John W. Bedford; vice-president, Frank M. Keller; secretary and treasurer, H. L. Bird; general manager, Charles W. Schriver; superintendent of farm, W. B. Moshier.

BOBBINK & ATKINS,
Rutherford, N. J.
REPRESENTATIVES WHOLESALE GROWERS FROM EUROPE.
Specialties for This Spring's Importation
RHODODENDRONS, ARAUCARIAS, HARDY AZALEAS, BAY TREES, ROOTED FICUS CUTTINGS, H. P. ROSES, CLEMATIS, ETC.
Mention American Florist.

AUCTION SALES!
THE BRITISH HORTICULTURAL ASSOCIATION, Ltd.
of 33a Ludgate Hill, London, E. C.
The largest Auction room in the city of London),
hold sales DAILY of BULBS, ROOTS, ETC., from all parts of the World.
Extensive Connection of Regular Buyers.
Good Prices Always Obtained.
Settlements Every Friday.
Registered Offices 29 New Bridge Street, LONDON, E. C., ENGLAND.
The Auction sales held by this Association offer more advantages to Growers and Consignors than those of any other existing English firm.

Viburnum Tomentosum
A RARE AND BEAUTIFUL SHRUB.
HERBACEOUS PERENNIALS A SPECIALTY
Price list and descriptive catalogue on application.
REA BROTHERS, Norwood, Mass.



Grow!
FLOWERS and plants grow vigorously & quickly and luxuriantly with that easy-to-use, safe, economical fertilizer—
The Imperial Liquid Plant Food.
It furnishes ideal nourishment from the very *start*. Absolutely convincing testimonials about the "Imp," booklets and prices for a postal to
EASTERN CHEMICAL CO., MFRS., 620 Atlantic Avenue, Boston, Mass.

....SPRING 1899....
One Million
Flowering Shrubs: full assortment; all sizes.
Half Million...
Deciduous Trees for street, lawn and avenue planting.
200,000 Vines, Ivies, Clematis, Actinidia and other sorts. Correspondence solicited.
THE WM. H. MOON CO.
MORRISVILLE, PA.

CLEMATIS 2 to 3 years old, extra strong field-grown plants, finest sorts (with 30% Jackmanni), Bateman, Henryi, Duchess of Edinburgh, Gipsy Queen, Etc. Price—$11 per 100, $105 per 1000; in finest sorts without Jackmanni, $8.50 per 100, $80 per 1000.
Clematis, strong, 1 to 2 years, cultivated in 5 to 6-in. pots, with 40 per cent Jackmanni, $8 per 100, $75 per 1000.
References requested from unknown correspondents.
J GROENEWEGEN, Boskoop, Holland

HARDY
Herbaceous Perennials
THE MOST COMPLETE STOCK IN AMERICA.
PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.
JACOB W. MANNING,
The Reading Nursery, READING, MASS.
ESTABLISHED 1854.

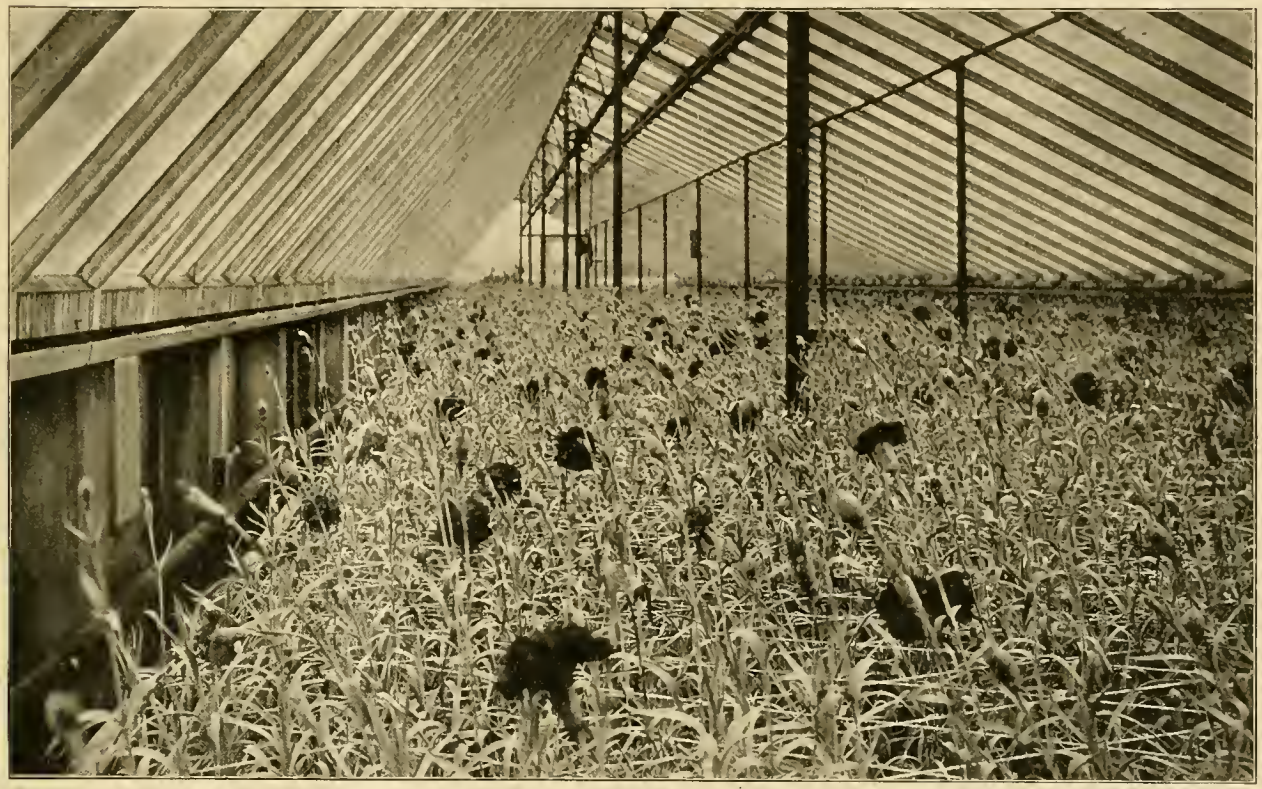
THE HARRISII DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent
KRAFT'S PLANT TONIC
This has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. Send for circular and descriptive price list.
THIS INSECTICIDE IS NON-POISONOUS.
KRAFT PLANT TONIC CO., - - Rockford, Ill.
Mention American Florist.

F. & F. NURSERIES SPRINGFIELD, NEW JERSEY.
Wholesale Growers, TREES & PLANTS in Full Assortment. TRADE CATALOGUE FREE.


The Popular **CAROLINA POPLAR.**
Just the tree for city planting—Thrives where others fail—Resists smoke and gas as the salamander does fire. 75,000 of them, beautiful trees 6 to 8, 8 to 10, 10 to 12 and 12 to 15 feet. Immense stock of all other Shade Trees, Shrubs and Roses. Hundreds of thousands of Fruit Trees, Small Fruits, Grape Vines, Plants, Seeds. Valuable Catalogue free. Correspondence solicited. Write us your wants if you would procure the best at bottom prices.
45th YEAR. 44 GREENHOUSES. 1,000 ACRES.
THE STORRS & HARRISON CO., Box 528, PAINESVILLE, OHIO.

DORNER'S NEW SCARLET CARNATION!

G. H. Crane.



Photographed December 6th, 1898; Planted September 1st., 1898.

THE COMING SCARLET CARNATION. No other will equal it. Tested three years and will stand as one of the most profitable commercial Carnations. Wonderfully productive, and an early, continuous, all-season bloomer. Easy so lift and quickly established, strong growing, robust, clean, well formed, bushy plants, producing full, rounded, deep, clear, brilliant scarlet average three-inch blooms, on 16 to 18-inch stiff stems that NEVER have a failing to weakness. The calyx is one of its strongest points, as they never show any bursted flowers. Good substance and excellent keeper. We recommend it to every grower. Received American Carnation Society Certificate, scoring 92 points, at Chicago, February, 1898. Certificate and Silver Medal at Chicago and Certificate at Indianapolis, November, 1898.

Rooted Cuttings, $2.00 per dozen, $10.00 per hundred, $75.00 per thousand.

GEN'L MACEO (Ward). Deep, brilliant scarlet, heavily overlaid with maroon. One of the darkest and richest shades in Carnations. Large bloom on long, stiff, wiry stems. Habit similar to McGowan, but much improved. The most profitable dark Carnation grown. **$2.00 per dozen, $10.00 per hundred, $75.00 per thousand.**

GEN'L GOMEZ (Ward). Brilliant cardinal maroon, 2½ to 2¾-inch bloom on long, stiff stems. Habit similar to Scott and as free as Portia. A vivid brilliant shade of color. **Stock limited; $2.00 per dozen, $10.00 per hundred.**

GLACIER (Ward). Pure snow white, 2½ to 3-inch blooms on strong stems. Dwarf habit and early, prolific bloomer. Valuable for side benches, where a low grower is required. **Stock limited; $2.00 per dozen, $10.00 per hundred.**

Send for complete price list of **CARNATION NOVELTIES and STANDARD VARIETIES.**

MARY WOOD, a large white Carnation, originating with us, has on its merits become a avorite with many. We have a fine lot of rooted cuttings now ready. Also of **WHITE CLOUD, GOLD NUGGET, MRS. BRADT** and all the leading fancy and most profitable varieties to grow. Send at once for our price list.

F. DORNER & SONS CO.,

LA FAYETTE, IND.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and cycling readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 67 Bromfield St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

Buffalo Bowlers Organize.

A meeting of the Buffalo Florists' Club is called for Friday night at President Scott's to organize a bowling club. It is a mere form. All our members are bowlers; we don't need practice; all we want is organization. W. A.

Bowling at Minneapolis.

The Twin City bowlers made the following scores at their meeting Jan. 17:

Name.	1st.	2d.	3d.	4th.	5th.	Av.
Nagel	146	141	147	113	146	139
Malmquist	152	131	99	101	177	132
Hartman	132	105	111	148	80	115
Carlson	128	89	82	123	122	109
Wessling	95	98	110	117	101	104
Swahn			104			104
Monson	84	97	118	62	99	92
Will	109	79	88	92	88	91
Swanson	55	85	97	89	73	80
Rose	87	102	55	66	84	79

FELIX.

Fun at Flatbush.

The Bowling Club was honored with a visit last Thursday evening from John H. Taylor. Much enthusiasm prevailed and the exciting sport was kept up until an unusually late hour. J. H. Troy took the first pot with a score of 148 but on the second game scores mounted skyward and it took 184 to send the coin jingling into W. A. Prosser's pocket. This is the same figure that won the Thanksgiving turkey.

Bowling at St. Louis.

A well attended meeting of the Bowling Club was held last Monday evening, the interest centering in the contest between Beyer and Finlayson. So far Beyer is leading.

Name.	1st.	2d.	3d.	4th.	Av.
C. A. Kuehn	211	162	149	134	164
D. Finlayson	115	158	165	178	154
C. Beyer	124	130	189	173	154
J. J. Beneke	149	157	158	127	148
J. W. Kuntz	122	136	173	157	147
F. C. Weber	101	125	162	178	141
C. C. Sanders	122	150	151	137	140
F. J. Fillmore	125	161	117	135	134

R. F. T.

Banquet at Lenox, Mass.

The Lenox Horticultural Society's annual banquet on a recent evening was attended by about seventy members and guests and was such a glorious success that everyone wants it repeated in the course of a few weeks. The tables were finely decorated with potted plants and music was furnished by the Lenox orchestra. President Wingett acted as toastmaster and responses were made as follows: The Lenox Horticultural Society, E. J. Norman; The Town of Lenox, John Cooney; Past Officers, A. MacConnachie; New York Florists' Club, C. B. Weathered; The Commercial Florist, Martin Finaghty; The Society of American Florists, W. A. Manda; Our Out of Town Members, C. R. Russell and Frank Howard. Songs were rendered by A. MacConnachie, C. R. Russell and R. A. Schmid and the entertainment was closed by all joining in the chorus of "Auld Lang Syne."

With Chicago Bowlers.

Following the last meeting of the Chicago Florists' Club the bowlers repaired to the alleys for a merry hour. Ernst Asmus, of West Hoboken, N. J., was a participant, as was O. P. Bassett, who has not visited the alleys in months. Mr. Bassett offered to roll the man from Jersey for $1,000 a game but as neither gentleman had any small change with him they bowled two games for friendship's sake, Mr. Bassett making 72 and 89 to 89 and 83 by Mr. Asmus. J. Austin Shaw was also present and succeeded in accumulating 92 points in one game. The scores made by the club members were as follows:

Name.	1st.	2d.	Av.
J. S. Wilson	157		157
E. F. Winterson	176	105	141
C. W. McKellar	121	158	140
August Lange	107	161	134
Alex. Henderson	113	134	124
John Degnan	111	129	120
Walter Kreitling	119	121	120
G. L. Grant	119		119
Charles Swigart	92		92

Recreations at Philadelphia.

The gunners are covering themselves with glory these days. George Anderson won a diamond of considerable value in an individual contest with some of the best shots in the city. He also obtained first place in the inter-club shooting tournament of this city for the year just closed. Another feather in the cap of the Florists' Gun Club was the selection of John Burton as one of a team of five men to represent Philadelphia in a contest against a like team of gunners representing Greater New York. Mr. Burton won his place in a competitive shoot against the best shots of the city. In the tournament Philadelphia won, defeating New York by only two targets, not much of a margin, but enough.

The bowlers have lots of fun when they get together, and there is considerable rivalry in the contest for a place on the Detroit team. The leaders, with their averages, are: Brown 153, Kift 145, Westcott 145, Smith 143, Longinotte 142 and Connor 142. Anderson is pegging away and has gained considerably the past month and there are several others, Captain Habermehl among them, who will be heard from when the winter rush is over. Baker has been taking a long vacation, and when he comes in off the grass a new string of two hundreds may be looked for. K.

Cleveland Bowling.

The bowlers showed up in goodly numbers at the last meeting and there was much excitement as a result of some good scores and close competition in the averages. A. Graham seemed to have the individual score badge safely won when Sam. Pentecost went him thirteen better, winning the badge on a score of 200. Mr. Graham, however, walked off with the high average badge with a score of 163.

Name.	1st.	2d.	3d.	Av.
A. Graham	158	187	145	163
E. H. Cushmao	164	133	154	150
James Eadie	133	181	132	149
S. N. Pentecost	107	133	200	147
Chas. Graham	145	147	138	143
Albert Hart		124	159	142
James Wilson	103	109	141	118
E. M. Coe	110	99	129	113
Guy Bate	107	123	106	112
Gordon Gray	112	81	95	96
Herman Hart	112	64	107	95
Geo. Tilton		91	94	93

A.

Pittsburg.

BULK OF BUSINESS IS FUNERAL WORK.—HARRISII LILIES SHORT.—LILACS ARE IN.—NOTES.

Business has been only fair with much the greater part of it in funeral work. Stock has been sufficiently plentiful for all demands, except for white.

Harrisii lilies are not obtainable in anything like the quantities of recent years, growers fighting shy of them this year.

Theodore F. Beckert, Glenfield, sent in very fine lilacs last week, the first of the season.

Chas. Hoffmeyer, Carnegie, furnished some extra fine single violets this week.

S. S. Skidelsky and Mr. Dykes, the latter representing Jansen, of New York, were visitors this week. REGIA.

SACRAMENTO, CAL.—Frank Kunz was driving on Second street on January 12, when a stray bullet clipped the tip of his nose. It was a narrow escape for his life.



AZALEAS
FOR EASTER.

We have a large stock of all best commercial varieties in fine shape for immediate shipment. Will pack much better now than later on when the buds are developed.

10 to 12-inch crowns, $35 per 100; 12 to 13-inch crowns, $45 per 100; 13 to 15-inch crowns, $55 per 100.

Asparagus Sprengeri, 2½-inch pots, $5; 3-inch pots, $8 per 100 **Asparagus Plumosus**, 2½-inch pots, $6 per 100.

Canna President Cleveland, the best of all the bright scarlet cannas for massing, $10 per 100. **Cannas**—an immense stock of all the leading sorts. Let us know your wants and we will quote you bargain prices.

Dahlias, fine assortment of up to date varieties, strong individual roots, $7 per 100; $60 per 1000.

Lilium Auratum, 7 to 9 inches, $4 per 100; 9 to 11 inches, $6 per 100.
Lily of the Valley, Berlin pips, $10 per 1000. Case of 2500 for $23.

ROSES—FIELD GROWN—STRONG TWO YEAR.

Hybrid Perpetual in leading varieties, $10 per 100. Crimson Rambler, $15 per 100.

For New Geraniums, Carnations, Chrysanthemums, Etc., see our Florist's Price List.

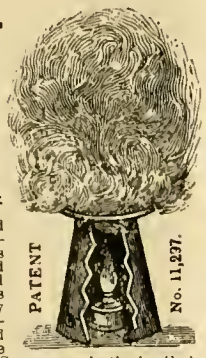
THE STORRS & HARRISON CO., - - PAINESVILLE, OHIO.

.. RICHARDS ..

XL

All Vaporizing

FUMIGATOR.



I have imported from London a sample invoice of this apparatus and would recommend same for trial. It is strongly endorsed by the leading horticulturists abroad and those who have used it in the U. S. are emphatic in their approval.

THE FUMIGATOR

is made in two sizes and will last for years. It consists of three parts—the copper cup, the cylinder and the lamp.

Small size, for 2000 cubic ft., $0.90.
Large " " 5000 " 1.00.

When the lamp is lit and the compound poured into the cup, the person should leave the house and need not re-enter it, as the lamp will die out soon after the compound is all evaporated.

THE COMPOUND.

is supplied in stoppered bottles, capsuled over, as follows:

5000 cubic ft., $1.25; 10,000, $2.50; 20,000, $5.00; 40,000, $8.50.

RICHARDS XL ALL MILDEW WASH (for syringing), a clear wash which does not stain foliage, flowers or fruit. Easier to apply and more effectual than sulphur. **$1.25 per bottle.**

RICHARDS XL ALL LIQUID INSECTICIDE (for syringing), claimed to be the safest and most effectual insecticide yet discovered. Full directions on each bottle. **$1.00 per bottle.**

G. C. WATSON

Bulbs
Raffia
Mushroom Spawn

Juniper and Walnut Sts.,
PHILADELPHIA.

Five per cent off cash with order.

Palms, Ferns and House Plants

AND HOW TO TREAT THEM:

A New 16-page Envelope Size Catalogue to be given to Customers.

It will gain business for you. SAMPLE FREE.

DAN'L B. LONG, Publisher, BUFFALO, N. Y.

MÖLLER'S

Deutsche Gärtner-Zeitung

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription $3.00 per annum, including postage. Sample copies free.

Ludwig Möller-Erfurt.

(GERMANY)

THE

Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

The "GARDENERS' CHRONICLE" has been FOR OVER FIFTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, much of the information furnished is of such general and permanent value, that the 'GARDENERS' CHRONICLE" is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, $4.20 per year. Remittances to be made payable to H. G. COVE.

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NURSERYMEN,
BRUGES, BELGIUM

TELEPHONE No. 75
CABLEGRAMS FOR BRUGES SANDER, BRUGES
" ST ALBANS VANDA LONDON
" AMERICA VANDA NEW YORK

AZALEAS,
ARAUCARIAS, PALMS, BAY TREES
A SPECIALITY



60, Vesey Street,
New York City,

October 25, 1898.

Mr. G. C. Watson,

Philadelphia.

My dear Sir:-

Re XL ALL, I could not give you much more information than that I told you the other evening. We use it extensively, and it annihilates the minutest thrips and bugs of all descriptions and after burning does not leave an unpleasant odor in the houses, like one experiences after the use of a tobacco fumigator.

The plants apparently do not suffer in any way, and in England its use is very extensive for many economic reasons; being easy to handle, and a rapid destructor of insect life. Excuse brevity. In haste,

Yours very truly,

A. DIMMOCK.

WILLIAM PLUMB,
THE HOMESTEAD,
WESTCHESTER, N. Y.

January 4, 1899.

Mr. G. C. Watson,

Philadelphia, Pa.

My dear Sir:

I received the Fumigator all right, and the only fault (if any at all) is the size of it. I am very favorably impressed with it. It is certainly far ahead of Tobacco in any form used, and I am writing to ask you to please send me three of the large size, and the largest bottle of Compound that you have. I want to give it a fair trial. I certainly believe it is all right.

We have a small white insect, something like a flying thrip, that "laughed" at the strongest kind of Nicotine, but this little bit of a Fumigator you send killed millions of them. They are still on the tomatoes in clouds.

Please let me have three at your earliest convenience, and greatly oblige,

Yours very truly,
William Plumb

Columbus.

MORTALITY GREAT IN THE OHIO CAPITAL.—TRADE FAIR AND PRICES BETTER THAN LAST YEAR.—PLANTS IN DEMAND.

Business is not very rushing and society seems to have the grip. Most flowers are used for funeral work, of which there is a good deal and prices are at a higher level than for the same week last year.

Mr. Wolf, who started a flower store at the Union depot some weeks ago, has disappeared, to the sorrow of some collectors.

G. Drobish has just published a very neat catalogue for his mailing trade.

Growers at Lancaster and Logan report a much increased call for plants at the holidays.

A florist down in the Hocking valley has Daybreak, Flora Hill, Jubilee and Scott in old, low houses, which are very good and long stemmed, but the same stock, with the same soil and care, planted in a high three-quarter-span new house are short stemmed and very brittle. What is the cause? It would interest that grower to know. FRANK DANZER.

CARNATIONS.

White Cloud, Firefly, Evelina, Gold Nugget....$5.00 per 100, $40 00 per 1000

Freedom.....	2.00	"	15.00 "
Jubilee, Flora Hill.....	1 75	"	15 00 "
Morello, Daybreak.....	1.25	"	10 00 "
Wm. Scott, Emily Pieraon, Silver Spray.....	1.00	"	7.50 "

Our stock is A1 and we guarantee satisfaction or money refunded.

THE STOVER FLORAL CO.,
Grandville, Mich.

CARNATIONS.

Cut Blooms. Standard Varieties.

$1.50 to $2.00 per 100.

GOOD SMILAX.....$15.00 per 100

EVENDEN BROS.,
WILLIAMSPORT, PA.

50,000 ROOTED CARNATIONS.

Cuttings of the following varieties now ready, no rust, healthy stock.

Daybreak.
Meteor, dark red.
Hector.
Helen Keller.
Minnie Cook
Eldorado.
Scott, pink.
Rose Queen, pink.
Lizzie McGowan, white.
Alaska, white.
Storm King, white.
Jahns Bros'. Red.
Fellow Red

$1.50 per 100, $15 00 per 1000.

Add stamps for mail orders. Orders must be accompanied with cash

D. A. CASEY,
31 Ashley St., Bridgeport, Conn.

It is time you were thinking about

CARNATION STOCK

for next season. It pays to buy only the best. Will have them in large quantities, of all the leading commercial varieties. Ready Jan. 1st and later. Write me for prices.

Address CHAS. CHADWICK.
Lock Box 11, Grand Rapids, Mich.

Our Specialty!

ROOTED CUTTINGS of NEW VARIETIES of CARNATIONS

Special prices to those who issue lists or who buy to sell again. Let us know what you are likely to need and get prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS

Healthy Rooted Cuttings Now Ready.

Flora Hill, Alba Superba, Mayor Pingree, Jubilee, Hector, Victor, Daybreak, Triumph, Wm. Scott, Armazindy, Minnie Cook.

Write for prices.

PENNROCK CO., Box 252, Wilmington, Del.

HERR'S CARNATIONS.

YOU RUN NO RISK.

ALL Carnation Cuttings are sent out with the privilege of returning them at my expense if they are not found satisfactory on receipt, and your money returned you in full. I have from one to five thousand stock plants of each of the leading varieties, and offer cuttings at very reasonable prices.

Nine Good Novelties!

Twenty-Five Standard Sorts!

UNCLE WALTER. This is another one of Tidal Wave's many sports and I presume it is the same and just as good as any of its other ones. I can vouch for its goodness and that it is a scarlet sport from Tidal Wave. Rooted cuttings can be had at $5.00 per 100 or $40.00 per 1000 either from John Murchie, Sharon, Pa.; or

Send for list before you place your orders.....

ALBERT M. HERR, Lancaster, Pa.

ROOTED CARNATION CUTTINGS.

	Per 100.	Per 1000.		Per 100.	Per 1000.
Triumph,	$3 00	$25.00	Armazindy,	$2.50	$20.00
Jubilee,	3.00	25 00	Pingree,	2.00	15.00
Argyle,	5.00	40.00	Alaska,	1.25	10.00
Flora Hill,	2.50	20.00	Wm. Scott,	1.25	10.00

Every one well rooted and in first-class condition.

WIETOR BROS. 51 Wabash Ave., Chicago.

New Carnation ARGYLE.

Place your orders for rooted cuttings with the originators of this grand novelty. Price, $5 per 100; $40 per 1000.

STOLLERY BROS., 1003 Carmen Avenue, CHICAGO.

CARNATION SEEDS

and Carnation Seedling Plants

From Hand Fertilized, Winter Blooming Varieties.

100 SEEDS - 25 CENTS

100 PLANTS FOR - $4.00

25 plants at 100 rate.

Postage Prepaid.

Cash with order.

AMERICAN ROSE CO.
WASHINGTON, D. C.

The MODEL Extension Carnation Support.

Read what some of our best growers say concerning it:

BUFFALO, N. Y., Jan. 13, 1899.

THERON PARKER, ESQ :—
Dear Sir:—Your "Model" Carnation Support is the best thing I have yet tried In fact, it is about ideal I used it this winter on SCOTT, FLORA HILL, MRS. BRADT and GENESEE. The principle is perfect, but experience may teach us that to some varieties, for instance Daybreak, the lower ring might with advantage be 2 in. lower
If I could afford the first cost at once I would not think of using anything but the "Model."
Very Resp'y, WM. SCOTT.

Other testimonials will appear weekly. Write for prices

THE MODEL PLANT STAKE CO.,
22 Morton Street, - - Brooklyn, N. Y.

A good adv. in a good paper will bring good returns.

NEW CARNATION

Gov. Griggs

SEEDLING OF VAN LEEUWEN ON DAYBREAK.

Strong, healthy grower, free from disease of all kinds, continuous free bloomer with flowers very erect on a stiff stem, 18 to 20 in.; flowers similar in color to DAYBREAK, but much brighter, edge beautifully fimbriated, good shape and with full center, and does not burst; commands the highest prices in New York for novelties. Having been grown by us for the past 4 years we can with confidence recommend it to the florists of America as one of the best if not the best light pink carnation ever sent out. Orders are now being booked for rooted cuttings to be delivered February 1 1899. Price, $75.00 per 1000; 500 at 1000 rates; $10.00 per 100; $2.00 per dozen. All orders filled strictly in rotation.

Cash with order from unknown correspondents. A personal inspection invited.

JOSEPH TOWELL, Paterson, N. J.
Haledon Ave. Nursery.

It Will Pay You

To correspond with me regarding Carnation Cuttings. I can supply all the standards and novelties at the lowest market price. Also Asparagus Plumosus Nanus, strong 2 inch stock ready for a shift, $4.00 per 100; $35.00 per 1000.

Address S. S. SKIDELSKY,
1653 N. 7th St. PHILADELPHIA.

CARNATIONS

Rooted Cuttings of New and Standard sorts. Send for price list.

WM. SWAYNE, - Kennett Square, Pa.
BOX 226.

Bassett & Washburn's

ROOTED CUTTINGS

OF

ROSES AND CARNATIONS

Are as Good as can be Grown and Free from any Disease.

WE GUARANTEE WHAT WE SAY.

ORDERS FILLED IN ROTATION.

ROSES.

	100	1000
Meteor	$1.50	$12 50
Bridesmaid	1.50	12 50
Bride	1.50	12.50
Perle	2.00	17.50
Kaiserin	2.00	17.50

We shall have a Nice Lot of **PLANTS** Later. Place Your Orders Early if You Wish the Best.

CARNATIONS.

PINK.	100	1000
TRIUMPH	$1.50	$12.50
WM. SCOTT	1.00	7.50
PAINTED LADY	4 00	35.00
DAYBREAK	1.50	12.50
ARGYLE	4.00	35.00
MRS. FRANCES JOOST	5.00	50.00
McBURNEY	1.50	12.50
RED.		
DAZZLE	$4.00	$35.00
JUBILEE	2.00	17.50
PORTIA	1.00	7.50
BON TON	4.00	35.00
MAROON.		
EMPRESS	$4.00	$35.00

WHITE.	100	1000
FLORA HILL	$1.50	$12.50
MARY WOOD	5.00	40.00
The largest and best white Carnation that is grown. Has a strong, stiff stem, and a constant bloomer. Sell in the market to-day for nearly double any other white Carnation we handle.		
EVELINA	4.00	35.00
WHITE CLOUD	4.00	35 00
VARIEGATED—White and Red.		
MRS. GEO. BRADT	$5.00	$40.00
PSYCHE	4.00	35.00
ARMAZINDY	2.00	17.50
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MAYOR PINGREE	2.00	17.50
GOLD NUGGET	6 00	50.00

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STORE, 88 Wabash Avenue, CHICAGO, ILL.
Long Distance 'Phone Main 223.

Maud Adams.

DEEP cerise red of a very pleasing shade under any light, a large, bold, handsome flower with extra strong stem, 18 to 24 inches high, with good calyx and exceedingly free flowering. The flowers sold in New York last season and the present one at $8.00 per 100. It was one of the sensations in cut flowers the whole season. Certificated N. Y. F. C. '98.

PRICE: $2 per doz., $10 per 100, $75 per 1000, 6 at doz. rate, 50 at 100 rate, 250 at 1000 rate.

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Patchogue, - Long Island, N. Y.

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JOHN N. MAY, Summit, N. J. — E. G. HILL & CO., Richmond, Ind.

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Rooted Cuttings.

	Per 100
Chrysanthemums, Chadwick, Yellow Fellow, Frank Hardy, Merry Christmas, Xmas Gift, Etc.	$3.00
Standard varieties	1.00
Carnations, Evelina, Jubilee, Flora Hill, Northway	3.00
Standard sorts	1.50
Fuchsias	1.50
Verbenas	.75
Heliotrope	2.00
Coleus	1 00

Send list of what is wanted.

L. J. STUPPY, St. Joseph, Mo.

CARNATIONS. Rooted Cuttings of Novelties and Standard Varieties. Send for price list.

Also LADY CAMPBELL SWANLEY WHITE and CALIFORNIA **Violets.**

GIANT DOUBLE ALYSSUM.

W. R. SHELMIRE, Lock Box 10, *Avondale, Pa.*
Telephone connection.

Rooted Cuttings Roses and Carnations!!

We offer well-rooted cuttings of the following Roses and Carnations, all in fine condition. Place orders early.

ROSES.

	Per 100	Per 1000
Meteor	$1.50	$12.50
Bridesmaid	1.50	12.50
Bride	1.50	12.50
Perle	1.50	12.50
Kaiserin	2.00	17.50

STRONG PLANTS OUT OF 2 1-2 INCH POTS:

	Per 100	Per 1000
Bridesmaid	$3.00	$25.00
Bride	3.00	25.00
Perle	3.00	25.00
Meteor	$3.00	$25.00
Kaiserin	3.50	30.00

CARNATIONS.

	Per 100	Per 1000
Wm. Scott	$1.00	$7.50
Nancy Hanks	1.00	7.50
McCowan	1.00	7.50
Tidal Wave	1.00	7.50
Kohinoor	1.00	7.50
Portia	1.00	7.50
Flora Hill	$1.50	$12.50
Jubilee	1.50	12.50
Mayor Pingree	1.50	12.50
Alaska	1.50	12.50
Nivea	1.50	12.50
Daybreak	1.50	12.50
Armazindy	$1.50	$12.50
McBurney	1.50	12.50
Triumph	2.00	17.50
Argyle	4.00	35.00
Painted Lady	3.00	25.00
White Cloud	3.00	25.00
Evelina	3.00	25.00

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Rooted CARNATION Cuttings

We have a fine lot of clean and well rooted Carnation Cuttings to offer; will be thoroughly rooted when sent out.

	Per 100	Per 1000
ARGYLE	$4.00	$35.00
MRS. GEO. M. BRADT	4.00	35.00
ARMAZINDY	2.00	15.00
SCOTT	1.00	7.50
McGOWAN	$1.00	$7.50
TIDAL WAVE	1.00	7.50
DAYBREAK	1.00	7.50

Rooted ROSE Cuttings.

Also will have Rooted Rose Cuttings of the leading varieties, including **AMERICAN BEAUTY** in quantity, ready Feb. 10. Can guarantee they will give the satisfaction they did last year. Our best attention will be given to the filling and packing of orders.

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....Nurserymen....

Mortefontaine par Plailly, OISE, FRANCE.

New and Rare Plants

ANTHURIUM. ALOCASIA. ARAUCARIA.
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SARRACENIA. ORCHIDS. PALMS.
BROMELIACEÆ. ETC.

Catalogue to be had free on application.

PALM Seed. FRESH ON HAND

	100	1000	3000
Kentia Belmoreana.....	$1.00	$6.50	$15.00

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(Established 1884)

PALMS, FERNS, FICUS

Latania Borbonica, ready for 3-inch; strong, $6 00 per 100. Fine, strong stock of Ferns for dishes, $3.00 per 100; $25.00 per 1000. Asparagus plumosus nanus, 3-inch, $8.00 per 100. Ficus elastica, 5-inch, $5 00 per doz.; 6-inch, $6 50; 3 to 5 feet high, $1 50 to $3 00 each. Sword Ferns, 4½ inch, ready for 5-inch, $10 00 per 100.

Twenty-one modern Greenhouses.

Medal awarded on Palms at World's Fair, 1893.

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Well-rooted cuttings, best varieties, mixed, $1.00 per 100; $9.00 per 1000.

Cash with Order.

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SPECIAL OFFER!

Cyclamen Persicum Splendens (giganteum), from flats twice transplanted, in four true colors, $3 per 100, $25 per 1000, express prepaid. **Chinese Primroses** seedlings from flats, $1 50 per 100; from 3-inch pots $4 per 100; from 4-inch pots in bud and bloom $5 per 100. **Cyclamens** from 3-in. pots, $8 per 100; from 4-in. pots in bud $12 00 per 100. **10,000 Geraniums,** Dbl. Grant, S. A. Nutt, La Favorite, Gloire de France, etc., our selection from 2-in. pots $2 per 100 express prepaid. SATISFACTION GUARANTEED.

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25,000 FICUS ELASTICA,

Good Rooted Cuttings, $8-$10 the 100.

2,000 FICUS ELASTICA,

12-15 leaves, extra fine plants, $15-$20 the 100.

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LA PINTE, GHENT, BELGIUM.

Edw. Parre's Largest Petaled and Cheapest BEGONIAS

The finest in trade, 1 inch and more.

Double, $3 per 100, $22 per 1,000, $200 per 10,000. Single, $1.50 per 100, $11 per 1,000, $90 per 10,000 Gloxinia; 1st class choice, $1.25 per 100 $12.00 per 1,000. Cash with order or good references.

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Begonia Gloire de Lorraine.

The finest winter-blooming plant in cultivation. In bloom half the year. We offer stock plants as follows.....

Plants from 2½-in pots, 25c. each; $2.50 per doz., $20 per 100.

Plants from 4-in. pots, 50c. each; $5 per doz., $40 per 100.

By mail, 10c each extra.

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Rex Begonias.

10 KINDS.

3 and 4-inch pots.....50c per doz., $4.00 per 100

ASPIDISTRA LURIDA VARIEGATA.

Fine plants from 4-inch pots.....$1.50 per doz.

SANSEVIERA ZEYLANICA.

5-inch pots.....$1.00 per doz.

CASH WITH ORDER.

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By the Tens of Thousands.



My prize winners carried off the highest national honors yet awarded the dahlia—a diploma and gold medal at the Omaha Exposition. Get my catalogue before ordering elsewhere.

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CHOICE DECORATIVE and FLOWERING PLANTS.

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REGAL Pelargoniums. SHOW

Fine plants showing buds; one of the best things for Easter; also fine for cut flowers: Mrs. R. Sandiford, Mme. Thibaut, D. of Teck, D. of Fife, Prince George, Bride and others, 3½-inch, ready for 5-in. $2 per doz.; 4 and 5-in., ready for 6 and 8, $3 per doz.; 2-in. 6c. each. For $2.50 I will send you 12 fine, large plants in 12 best varieties as samples. Of course cash. This adv. will not appear again. A. C. LAMPRECHT, Ashland, Ohio.



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"Jones pays the freight," so do we on all rooted cuttings and until further notice we will sell our fine Mammoth Verbenas @ 60c. per 100, $5.00 per 1000, all well rooted, true to name, strictly free from rust or mildew. Our Verbenas go everywhere; it makes no difference where you live, we guarantee to reach you in safety and guarantee satisfaction. What more can you ask? Just try us and we will do the rest. We can fill all orders for Verbenas at the following prices: 60c. per 100, $5.00 per 1000, 5000 for $22.00, 10,000 for $40.00, 25,000 for $95.00, 50,000 for $175.00. Yes, and we have them, too.

TESTIMONIAL.

C. HUMFELD: Bala, Pa., Dec 27, '98.

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HELIOTROPES. 10 named vars., 80c per 100, $6 per 1000. **AGERATUM** Cope's Pet, blue, and Lady Isabel, white, 50c per 100, $4 per 1000. **COLEUS,** 40 best named vars., 70c per 100, $6 per 1000. **FUCHSIAS,** named vars., $1.25 per 100. **CARNATIONS,** Wm. Scott and McGowan, $1 per 100, $9 per 1000.

Remember, we prepay mail and express charges on all rooted cuttings. That cash please.

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THE ROOTED CUTTING SPECIALIST,
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100 Grevillea Robusta; out of four (4) inch pots; nice stocky plants, with two and three shoots; $6.00 per hundred.

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500 Boston Ferns

good plants $15 00, 10 to 12 in. high, from flats. Cash with order.

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Know that they can dispose of all their Surplus Stock by advertising in the American Florist. TRY IT NOW.

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Rebecca, seedling by Dorner, fancy bloom, large as Mayor Pingree, stem as strong, bloom is yellowest brown, flaked light pink, bright Per 100 $5.00
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Tidal Wave, discarded for Argyle.
Empress, large dark red 4.00
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Sport from Mrs. Bradt, the coming scarlet single rooted cutting, each, 25c.
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Daybreak, shell pink 1.50
Triumph, the big pink 1.50
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Above carnations are all strong, healthy rooted cuttings. Estimate given on 1,000 to 50,000 lots.

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2¼-in., Rooted in September, 1898.

Per 100
New Coleus Brownii, a fine bedder $5.00
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Geranium, Dekoo Milling, seedling, a cross between Cloth of Gold and S. A. Nutt; it has the yellow leaf of Cloth of Gold and the double bloom of S. A. Nutt; each . . . $5.00.
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THE NEWEST THING FOR EASTER BLOOMING.

Flowers in thumb pots; grows rapidly, will fill a 6-in pot by Easter and carry 50 to 100 sprays of rosy flowers, 10 to 15 in. long; lasts 4 weeks when cut; wholesales at $2 per 100; grows finely in cool house; perpetual bloomer. 12 for $1.25, mailed; 100, $8, express

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CRIMSON RAMBLER, 3-year dormant plants, 4 to 5 canes, 4 to 5 feet long, per dozen, $3.00; per 100, $20.00.

PINK, WHITE and YELLOW RAMBLERS, 2-year dormant plants, extra strong, per doz., $2; per 100, $15.

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ROSES, from 3-inch pots.
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rooted cuttings, per 100 $2 50
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THE BOSTON FERN From $5 per 100 and $40 per 1000 to $1 each

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We are Headquarters for all '99 Novelties. Also complete list of best commercial varieties.

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Crimson Rambler.....	$15.00	and	$18.00	per hundred	
Yellow "	10 00	"	15 00	"	"
White "	10 00	"	12 00	"	"
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Order quick if you want them

THE CONARD & JONES CO.,
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Chrysanthemums.

We have an extra large stock of Chrysanthemums, including reds, Ostrich Plumes and other standard varieties. Suitable for the mailing trade.

Strong plants $2 50 per 100; $20 00 per 1000
Rooted cuttings $1 50 per 100; $10 00 per 1000.

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Grafted Maids ...and Brides.

Orders booked now; guaranteed strictly first class; $10.00 per 100.

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CHRYSANTHEMUMS, 2¼-in. pots.

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4-in. in bloom, $15.00 per 100.

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Four extra fine sorts, $3.00 per 100; Czar $1 per doz.

HYDRANGEAS,
This stock will bloom this spring.
Hortensis, 2¼-in. $4.00 per 100; 4-in. $10.00 per 100
" 5 and 6-inch $25.00 per 100.
Thos. Hogg, 3-in. $8.00 per 100; 4-in. $12.50 per 100.

LATANIA BORBONICA,

2¼-inch	$4.00 per 100	4-inch	$2.50 per doz.
3-inch	8.00 " "	5-inch	4.50 " "

6-inch $9.00 per dozen.

LIBONIA PENRHOSIENSIS,
4-in. in bud $10.00 per 100; 2-in. $3.00 per 100.

MOON FLOWER,
White.....$4.00 per 100

PELARGONIUMS,
Mme. Thibaut, splendid new double,

4-inch	$15.00 per 100	2¼-inch	$10.00 per 100
Victor	6.00 " "	Mixed with label	$3 " "

PETUNIAS, DOUBLE WHITE.
Strong grower, free bloomer, Snow White, $4 per 100

ROSES,
Leading forcing sorts $3.00 per 100; $25.00 per 1000
" " " 3-inch.....$5.00 per 100
50 varieties ever bloomers 3.00 " "
20 " H. P's 5.00 " "

VINCAS, 2¼-in. $3 per 100; 4-in. $15 per 100.

W. L. SMITH,
AURORA, ILLINOIS.

AMPELOPSIS VEITCHII,

Strong 1 year,	$4.00 per 100
Alternanthera 2 var,	$2.50 per 100; $20.00 per 1000
Begonias in variety	$4.00 per 100
Cannas, good sorts	5.00 " "
Dahlias, small 25 varieties	4.00 " "
Cyperus (Umbrella plant)	3.00 " "
Feverfew, Little Gem	3.00 " "
Achillea, 2 varieties	3.00 " "
Ageratum, Cope's Pet	3.00 " "
Asparagus Tenuissimus	6.00 " "
Cuphea, 2 varieties	3.00 " "
Grevillea, 3-inch	6.00 " "
English Ivies	3.00 " "
Nierembergia, Othenna	each 3.00 " "
Otaheite oranges, 4-in.	$2.00 per doz.
Oleanders, double white	6.00 " "
" " "	6-inch 40.00 " "
Phlox, hardy	4.00 " "
Salvias	3.00 " "
Smilax	2.00 " "
Swainsonia	4.00 " "
Violets, California and Mary Louise	3.00 " "
Velvet plants, 3-inch	8.00 " "
Lemon Verbena	4.00 " "
Euphorbia splendens 4-in.	$2 per doz.

VERBENAS,

Pot plants	$2.50 per 100; $20.00 per 1000
Cuttings	.75 " " 6.00 " "

COLEUS, Pot plants 2.50 per 100; $20.00 per 1000
" Rooted cuttings .75 " " 6.00 " "

For further prices and descriptions consult our 20 page Trade List ready this month. Send for it!

O, Say! Your Order Now

All "Rooted Good" Now Ready.

	Per Doz.	100.	1000
Fuchsias, 6 varieties	.20	$1.25	$10.00
Heliotrope, 5 varieties	.20	1.00	8.00
Vincas, Major and Minor	.15	.75	6.00
Petunias, double, 8 varieties	.20	1.25	10.00
Mrs. Jeffreys (the carnation Petunia, new)	.40	2.00	
Verbenas, 12 varieties	.15	.70	6.00
Geraniums, Mme. Salleroi	.20	1.25	10.00
Ageratums, Princess Pauline	.20	1.25	
Alyssum, Double Giant	.20	1.00	
Abutilons, Souv. de Boon	.20	1.25	
" Savitzii	.40		

Express paid to all parts of United States and Canada.

S. T. DANLEY, - Macomb, Ill.

NEW MAMMOTH VERBENAS.

25 grand varieties guaranteed satisfactory in every respect. Strong rooted cuttings, 60c per 100, $4 per 1000. Fine pot plants, full of cuttings, $2 per 100. Cash with order. EXPRESS PREPAID to all parts U. S. and Canada. Send for descriptive circular.

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Dear Sirs—The Verbenas arrived in good order. Thanks for sending me as good stuff as nobody has any room to kick on that kind of stuff at twice the price. Please find P. O. order for $1. for which send me 100 Double Fringed Petunias. Resp'y yours.
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SOUTH SIDE FLORAL CO., Springfield, Ill.

FUCHSIAS... OUR SPECIALTY.

ROOTED CUTTINGS, Black Prince, Purple Prince, Elm City, dark; Molesworth, Snowball, Arabella, white, $1.00 per 100, $9.00 per 1000.
Phenomenal, Storm King, E. G. Hill, Avalanche, $1.25 per 100.
Genuine Sunray, $3.50 per 100.

GERANIUMS from 2-in. pots, strong, clean stock, labeled, $2.00 per 100, $15.00 per 1000.

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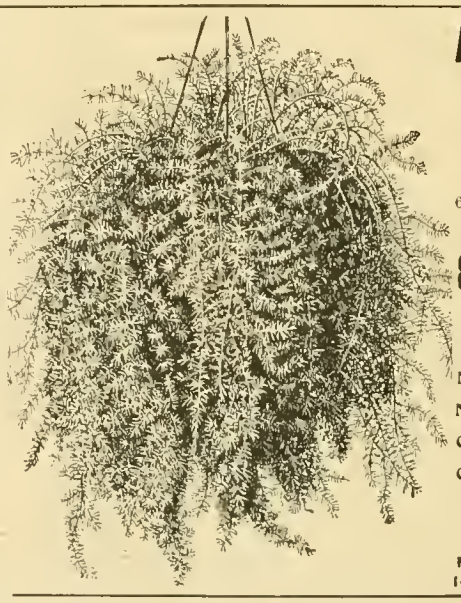
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500 Dwarf Orange Plants (Citrus Sinensis), large bushy heads, from 4 to 5-in. pots, $20 per 100.
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PANSIES WORTH RAISING.

Good Small Plants from cold frames or greenhouse only, at $1.00 per 1000. All others not accessible at present.

☞ CASH WITH ORDER. **Seed as usual.**

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Extra fine bushy stock, all pot bound and ready for a shift.

2½-inch	$.75	per doz.,	$5.00 per 100
3 -inch	1.00	"	8.00 "
4 -inch	2.00	"	15.00 "
5 -inch	2 50	"	20 00 "
6 -inch	3.00	"	25.00 "

6-inch Wire Hanging Baskets, extra full . . each, 75c.; per doz., $8.00
8-inch " $1.00; " 10.00

8 Grand New Geraniums for $3

William Langguth	**Jean Diand**
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NEW HELIOTROPE, Czar and Czarina, per dozen, 50c.; per 100, $4.00.
NEW AGERATUM, Princess Pauline, per dozen, 50c.; per 100, $4.00.
CARNATIONS, rooted cuttings, all the new ones; also all the standard sorts. Write for estimate.
CANNAS. We have a fine stock of all the best sorts. Write us for prices.

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100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20 per 1000. Rooted Cuttings, 75c per 100; $6.00 per 1000; $50 per 10000.

NO RUST OR MILDEW.

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SPECIAL OFFER—CHEAP!

Anybody who intends to grow **HEATH** here is your chance! Speak quick if you want any. I have a surplus of fine bushy plants from 3½-in. pots of the Xmas variety,

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DREER'S STRAIN.

2-5 leaves.....$3.00 per 100.

GERANIUM "MARS", 2½-inch pots, 75c. per dozen, $5.00 per hundred.

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THE JENNINGS STRAIN **PANSIES.** SEED. PLANTS.

Finest mixed. Good little plants for cold frames, $4.00 per 1000, express.
Seed, $1.00 per pkg, $5 00 per ounce.

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FOR 30 DAYS!

We Offer

VERBENAS, nice plants, fine colors 2-in pots	$ 1.00 per 100
SMILAX, 3-in. pots (strong)	1.00 per 100
ROSES, assorted, 4-in. pots	8.00 per 100
" 5 and 6-in. pots	10.00 per 100

75 varieties of best roses.

Packed securely free of charge. Say if soil to be left on and whether by express or freight. To avoid delay please send the money.

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CAPE JESSAMINE.
GARDENIA FORTUNEI.

Bloom half again larger than G. Florida Northern florists retailing at 75c to $1.00 each Stocky plants.

18 to 24 inch	per 10, $1 00;	per 100, $7 50
2½ to 4 feet	" $1.25;	" $9.00

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